United States Air Force 611th Air Support Group/ Civil Engineering Squadron

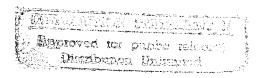
Elmendorf AFB, Alaska

Final

Remedial Investigation and Feasibility Study

Point Lonely Radar Installation, Alaska

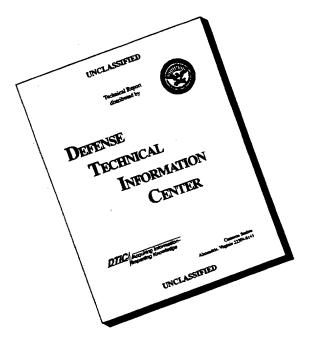
(Volume 2 of 2 Includes Appendices D - G)



APPENDIX D SAMPLE COLLECTION LOGS

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SAMPLE COLLECTION LOGS FOR THE SEWAGE DISPOSAL AREA (SS01)

DATE: <u>8-26-93</u>		····	SAMPLE	ID: LON-SS	S01-S01			
RADAR STATION: P	oint Lonely		WEATHE	R: Overca	ist and chilly, 45°F			
SITE/AOC: SS01							MAGNETIC HEAD	ING: 225°
FIXED POINT: Cen	terline of ro	oad interse	ection of Bea	ach Road (e	ast-west) and Main	Road o	out to beach (nor	th-south)
SAMPLE MATRIX:					Surface Water (SW)		Groundwater (G	
SAMPLERS: JM,	RO						·	•
TIME SAMPLED: 09	:50		_ DEPTH C	F SAMPLE	(feet): 0 to 0.5			
SAMPLE DESCRIPTION	DN/COMM	ENTS: Fin	e to mediun	sand and c	ravel, moist. Ten pe	rcent s	lightly compacted	fines. Located
adjacent to outlet of o			section of b	each and m	ain road. VOC-BTE	X 8020	was collected in	an 8 ounce jar.
SAMPLING METHOD	: Dedicate	d scoop						
QA/QC SAMPLES CO	DLLECTED				☐ QA/QC Ex			
☐ Trip Blank (TB)		☐ Du	plicate of W	ater Sample) ID			
☐ Ambient Conditio	n Blank (Al	B) 🗌 Re	plicate of S	oil Sample II)			
			WA	ATER PARAI	METERS			
TIME	PH		CONDUCTI	VITY	TEMPERATURE	SPE	CIFIC GRAVITY	TURBIDITY
	+					 	****	
		and of trade of the Con-	895. minus 11 - 17 1 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	NAME OF THE PARTY OF			Santana and the santana and th	
			МОГ	NITORING R	EADINGS			
					HANBY SCREEN	IING		
TIME	PID READ	ING (ppm	i) CG/L	EL (%)	(standard/ppm)			
;								
50 8							<u></u>	
BG=Background;	BZ=Breath	ing Zone;	BH=Boreho	ole; NR=No	Readings; HS=Hea	dspac	ə; S=Sample (un	contained)
			✓ CHECH	C ANALYSES	REQUESTED			
		. [BARROW L	AB			ANCHORA	GE LAB
ANALYSES	1		CONTAINER	RS	ANALYSES	/	CONTAI	NERS
		WA	ATER	SOIL			WATER	SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml	4 oz
РСВ					SVOC (8270)		1 liter	8 oz
PESTICIDES					TOTAL METALS		1 liter	8 oz
HVOC 8010		1 x 40 m	l lr	4 oz	DISS METALS		1 liter	
VOC-BTEX 8020	1				TDS		250 ml	
					TSS		250 ml	
					тос		500 ml	4 oz
					TCLP		2 liters	2 x 8 oz
					-			

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

ADAR STATION: Point Lonely WEATHER: Overcast, chilly, 45°F, windy ITE/AOC: SS01 Sewage Disposal FEET FROM FIXED POINT: 55 MAGNETIC HEADING: 225°												
SITE/AOC:SSO	1 Sewage D	Disposal	FEET FR	OM FIXED	POINT: 55		MAGNETIC HE	ADIN	G: 225°			
FIXED POINT: Cei	nterline of r	oad intersection	n, Beac	h Road (ea	st-west) and Main R	oad ou	t to beach (no	rth-so	uth)			
SAMPLE MATRIX:												
SAMPLERS:JM												
TIME SAMPLED: 1	0:15	0	DEPTH C	F SAMPLE	(feet): 3.0 to 3.5							
SAMPLE DESCRIPT						d grav	el, moist. Ten	perce	ent fines. No			
odor, slightly stained	I. VOC-BTE	EX 8020 was c	ollected	in an 8 our	nce jar.							
SAMPLING METHO	D: <u>Hand au</u>	ger and scoo	pq									
QA/QC SAMPLES C	OLLECTED	: 🗆 Equip	ment Bla	ınk (EB)	QA/QC EX	tra Vol	umes					
☐ Trip Blank (TB)					e ID							
☐ Ambient Condition	on Blank (A	B) 📕 Replic	ate of So	oil Sample I	D LON-SS01-S14-0)3						
			14/4	TED DADA	METERO							
		T T	VVA	TER PARA	METERS	Υ						
TIME	PH	CO	NDUCTI	VITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ	TURBIDITY			
			weens to the state									
			10M	NITORING F	READINGS		A THE REAL PROPERTY AND A STREET OF THE PROPE	en og gregore				
			Ţ		HANBY SCREET	UNC						
TIME	PID READ	DING (ppm)	CG/L	EL (%)	(standard/ppm)	NING						
		* *************************************		· · · · · · · · · · · · · · · · · · ·								
			+									
	<u> </u>		_									
BG=Background;	BZ=Breath	ing Zone; BH	=Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncor	ntained)			
and the second s	and the second seco				S REQUESTED	- Marketika	an garaga ay	AND PROPERTY OF A CO				
					- Incubedia	i						
		BAF	ROW L	48	_		ANCHO	HAGE	: LAB			
ANALYSES	1	CO	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS			
		WATE	3	SOIL			WATER		SOIL			
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 mi		4 oz			
РСВ					SVOC (8270)		1 liter		8 oz			
PESTICIDES					TOTAL METALS	-	1 liter		8 oz			
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter					
VOC-BTEX 8020	1				TDS		250 ml					
					TSS		250 ml					
					тос		500 ml		4 oz			
					TCLP		2 liters		2 x 8 oz			
					1	L						

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>	DATE: 8-26-93 SAMPLE ID: LON-SS01-S03									
RADAR STATION: P	oint Lonely	<u> </u>	WE	EATHER	: Overca	ast, chilly, 45°F, win	dy			
SITE/AOC: SS01	I Sewage D	Disposal	FE	ET FRO	OM FIXED	POINT: 25		MAGNETIC HEA	ADING	G: <u>225</u> °
FIXED POINT:Thre	<u>ee semi-bu</u>	ried pipes	from	beneath	road, tyin	g on beach trending	north.			
SAMPLE MATRIX:						Surface Water (SW)		Groundwater (GW)	
SAMPLERS: RT.										
TIME SAMPLED: 10										
SAMPLE DESCRIPTI	ON/COMM	ENTS: TI	hirty fe	et west	of triple p	ipe outfall. Fine sar	nds wit	h no petroleum	odo	r or staining
VOC-BTEX 8020 was SAMPLING METHOD		in an 8 ou	ınce ja	ar.						
QA/QC SAMPLES CO										
☐ Trip Blank (TB)	OLLEGIED					☐ QA/QC Ex				
☐ Ambient Conditio	n Blank (Al	R) □ Ri	uplicat	O OF SO	iter Sample II Sample II) ID				-
	71 Diam. 1		opiiou.							
TIME	PH		CONI		TER PARAI	T	1 200		. T .	
THE	+		CON	DUCTIV	IIY	TEMPERATURE	SPE	CIFIC GRAVITY		TURBIDITY
			-				<u> </u>			

			a to agricult	. Na. 786 Printer			102.00°, 10.780830	samendeleggeren i	Tales Scott	MONTH OF THE PROPERTY OF THE P
			······································	MON	TORING R	EADINGS		r		
TIME	PID READ	DING (ppn	n)	CG/LE	L (%)	HANBY SCREEN (standard/ppm)	NING			
10:18	BZ = 0			0		NR	·······		+	
						1411			-	
	=	_								
BG=Background;	BZ=Breatn	ing Zone;	BH=	Borehol	e; NR=No	Readings; HS=Hea	dspac	a; S=Sample (ι	ıncor	ntained)
		,	. (CHECK	ANALYSES	REQUESTED				
			BARR	IOW LA	В			ANCHO	RAGE	LAB
ANALYSES	1		CON	TAINER:	S	ANALYSES	1	CONT	AINE	RS
		W	ATER		SOIL		V 70.00	WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 n	nl		4 oz	DISS METALS		1 liter	•	
VOC-BTEX 8020	1					TDS		250 ml		
					<u> </u>	TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
								-		

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to $\mathrm{4^{\circ}C}$

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE I	D: LON-S	S01-S04-03						
RADAR STATION: <u>P</u>	oint Lonely		W	EATHER	R: <u>Overcas</u>	t, chilly, 45°F						
SITE/AOC: SS01 S								MAGNETIC HE	ADING	G: <u>225°</u>		
FIXED POINT:Thre	<u>ee semi-bur</u>	ried pipes	from	beneath	n road lying	on beach trending	north.			·		
SAMPLE MATRIX:		□ s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: <u>PG</u>												
TIME SAMPLED: 10					F SAMPLE	` '				\(\(\alpha\) \(\nu\)		
SAMPLE DESCRIPTI 8020 and VOC 8260					gravel, i.e	., fill material. Stron	g diese	el odor and sta	aining.	VOC-BIEX		
SAMPLING METHOD				jais.	-							
QA/QC SAMPLES C				ont Plan	ak (ER)	□ 04/0C E ₂	tra Val	Imag				
Trip Blank (TB)	OLLEGIED					e ID		umes				
☐ Ambient Condition	n Blank (Al											
	ar Blaint (7 ti		Српои	-4								
				WA	TER PARA	METERS	T					
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ 1	TURBIDITY		
	1500	ong a lead to be a second		#146200 J. 1877	SE ELECTRICA CONTRACTOR	100 mm m m m m m m m m m m m m m m m m m	**************************************	Parameter and the second				
				MON	IITORING F	READINGS						
TIN 4 F	DID DE 4.5	NNO (00"	=1 (2.1)	HANBY SCREEN	IING					
TIME	PID READ	JING (ppr	m)	CG/LE	:L (%)	(standard/ppm)			_			
10:30	BZ = 0	****		0		NR NR			_			
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspac	e; S=Sample	(uncor	ntained)		
	r II	SAN SPERMINE		CHECK	ANALVOE	S REQUESTED	GOVERNMENT.	STATE OF THE RESIDENCE OF THE PROPERTY OF THE	makir Selection	A STATE OF THE PARTY OF THE PAR		
						T						
			BARE	ROW LA	/R	1		ANCHO	HAGE	- LAB		
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS		
		w	ATER		SOIL			WATER		SOIL		
ТРН	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz		
PCB						SVOC (8270)	1	1 liter		8 oz		
PESTICIDES				,		TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1					TDS		250 ml				
			744.			TSS		250 ml				
						тос		500 ml		4 oz		
						TCLP		2 liters		2 x 8 oz		
										i		

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE !	D: LON-S	S01-S05				
RADAR STATION: _F	oint Lonely		W	EATHER	: Chilly,	windy				
SITE/AOC: SSO										
FIXED POINT:Go	50' perpen	dicular to	o cente	erline or	Beach Ro	ad trending SE from	n SS01	-S03 and SS0)1-S04	
SAMPLE MATRIX:	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: RT										
TIME SAMPLED: 1	0:40		DE	PTH O	F SAMPLE	(feet):		* ' ''		
SAMPLE DESCRIPT								and SS01-S04	4. Clav	with mino
organic matter. No		en. VOC	C-BTEX	8020 w	vas collecte	ed in an 8 ounce jar.				
SAMPLING METHO									*	
QA/QC SAMPLES C	OLLECTED									
☐ Trip Blank (TB)						9 ID				·
☐ Ambient Condition	on Blank (Al	3) LJF	Replicat	te of So	il Sample I	D				
WATER PARAMETERS										
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥТ	URBIDITY
							 			
							1			
e 1967 kg. je Milliani se proprince sobore po 2013	A DESCRIPTION OF THE CARLOS		S. S. New Yorkship.	all specifications	and the second of		17 Sept. 25	aslane is mobile to the flat featible	Protest Control	
				MON	ITORING F	EADINGS				***************************************
						HANBY SCREEN	NING			
TIME	PID READ	ING (pp	m)			(standard/ppm)				
10:45	BZ = 0			0		NR				
BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample	(uncor	ntained)
	in to it is a first through a fields	wednes i fire i a sept		CHECK	ANALYSE	S REQUESTED	o trojim ve ipočeciji	enu disaksi kalenda ke 7 (4 bilanda). T	r sa Magyada (Si	iki en 900-055 lettorou.
				ROW LA				ANCHO	DRAGE	: I AR

ANALYSES				TAINER		ANALYSES	1	CON	ITAINE	
		٧	VATER		SOIL			WATER	l	SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml	<u> </u>	4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020				TDS		250 ml				
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>				PLE ID: LON-S					
RADAR STATION: P									
SITE/AOC: SS01	Sewage D	Disposal 	FEE	T FROM FIXED	POINT: 50	1	MAGNETIC HEA	NDIN	G: <u>135°</u>
FIXED POINT: GO									<u>nd SS01-S04</u>
SAMPLE MATRIX:				(SD)	Surface Water (SW)	Ц	Groundwater (GW)	
SAMPLERS: <u>PG</u> TIME SAMPLED: 10				TH OF SAMPLE	' /foot). 2				
SAMPLE DESCRIPTI					, , , , , , , , , , , , , , , , , , , ,	v and i	no rock with not	ural	organia adar
VOC-BTEX 8020 was				medica ai perm	anost boundary. Ola	y arru r	De TOCK WILLT HAL	urar	organic odor
SAMPLING METHOD									
QA/QC SAMPLES C	OLLECTED): 🗆 Eq	uipmen	t Blank (EB)	☐ QA/QC EX	tra Vol	umes		
☐ Trip Blank (TB)					e ID				
☐ Ambient Condition	n Blank (A	B) 🗌 Re	plicate o	of Soil Sample	ID				
				WATER PARA	METERS				
TIME	PH		CONDU	ICTIVITY	TEMPERATURE	SPE	CIFIC GRAVITY	, -	TURBIDITY
10:52	BZ = 0		0		NR				
The second secon	Maria de mercina de Securios	S. I. A. W. S. B.	A STATE OF THE STA	MONITORING I	READINGS	5 3 3 7 8 FM	Million Marketing and the second of the	- 20 340 0000	
			<u> </u>					\top	
TIME	PID READ	DING (ppm	n) C	G/LEL (%)	HANBY SCREEN (standard/ppm)	NING			
								†	
								_	
BG=Background;	BZ=Breath	nina Zone:	BH=Bo	rehole: NR=No	Readings; HS=Hea	ndsnac	: S=Sample (i	ıncoı	rtained)
and the state of t		reproductive state of the second	and when where	2000000	Sale Control of the C	53346V3708	of a gambia (c	erikon:	Kairioa)
				***************************************	S REQUESTED				
			BARRO	M LAB	_		ANCHO	RAGE	- LAB
ANALYSES	1		CONTAI	INERS	ANALYSES	1	CONT	AINE	RS
		WA	ATER	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS	·	1 liter		8 oz
HVOC 8010		1 x 40 m	ıl	4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					TOC		500 ml		4 oz
					TCLP		· 2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCI to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

						S01-S07-1.0				
RADAR STATION: <u>P</u>	oint Lonely	<u> </u>	W	EATHER	R: Chilly, c	ool, 40°F				
SITE/AOC: SS01	l Sewage D	Disposal	F	EET FR	OM FIXED	POINT: 2	N	IAGNETIC HEA	DINC	3: Vicinity
FIXED POINT: Dow										
SAMPLE MATRIX:		□s	edime	int (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: RT,										
TIME SAMPLED: 11	1:15 ON/COMM	TAITO, M	Dt	EPTH O	F SAMPLE	(feet): 1				
SAMPLE DESCRIPTION SEMINATE SE	FX 8020 wa	en 13. <u>vv</u> s collect	ed in a	an 8 Ou	<u>nce iar</u>	fill materiai). Moist, r	neavy d	iesel odor, visit	ole sn	een on moist
SAMPLING METHOD		<u> </u>	00 111	211 0 001	noe jai.					
QA/QC SAMPLES CO		:	quipm	nent Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)			uplica	te of W	ater Sample	e ID				
☐ Ambient Conditio	n Blank (Al	B) 🗆 R	eplica	te of Sc	oil Sample I	D				
				WA	TER PARA	METERS				
TIME	PH		CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y -	TURBIDITY
					4		1			
	en 1984 (Policilla) desemble:		es la companya de	o jakonting se	THE RESERVENCE		sa ka jihuli aka	erredes de la companya de la company	estados ()	
	r			MON	IITORING R	READINGS				
						HANBY SCREEN	NING			
TIME	PID READ	JING (ppi	m)	CG/LE	EL (%)	(standard/ppm)	-		$oldsymbol{\perp}$	
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	ole: NR=No	Readings; HS=Hea	adspace	: S=Sample (uncor	ntained)
		an salah geradakan	158 . Sec. 184	Addition of the second	allininger spekerer i ser er er er er		ACC P	o, 0 – 0 × 11, 12 ,		itanica)
						S REQUESTED				
			BAR	ROW LA	ч В	_		ANCHO	RAGE	LAB
ANALYSES	1		CON	ITAINER	ìS	ANALYSES	1	CONT	TAINE	RS
		w	/ATER		SOIL			WATER		SOIL
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 mi		4 oz
PCB						SVOC (8270)		1 liter	***	8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ı	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1		···			TDS		250 ml		
						TSS		250 ml		
						тос		500 ml	***	4 oz
						TCLP		2 liters		2 x 8 oz
										J

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO $_3$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SAMPLE	ID: LON-S	S01-S08-2.5				
RADAR STATION: P	oint Lonely	<u> </u>	WEATHE	R: Chilly, c	ooi, 40°F				
SITE/AOC: SS01									: Vicinity
FIXED POINT: <u>Dov</u>	vn elbow jo	oint of oil fill	oipe for be	ench diesel	tanks south of Beac	h Road	d at edge of ro	ad.	
SAMPLE MATRIX:		☐ Sedi	ment (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: PG									
TIME SAMPLED: 1									
SAMPLE DESCRIPTI									
sediments, diesel od SAMPLING METHOD			in brotile t	o clay laye	r, 2.5 feet. VOC-BTE	X 8020	was collected	in an	8 ounce jai
QA/QC SAMPLES C			nment Die	nk (ED)		\			
☐ Trip Blank (TB)	OLLEGIED		-		QA/QC EX				
☐ Ambient Condition	n Blank (A	B) \square Repl	icate of So	alei Sample I	a ID	-			
	1		WA	TER PARA	METERS T	1			
TIME	PH	C	ONDUCTIV	VITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y -	TURBIDITY
						1			
						 		\dashv	
a e e e e e e e e e e e e e e e e e e e	entry entry in the second	Complete Complete	and the state of t	o a se				ierala libra	VV Company
			10M	NITORING F	READINGS				
					HANBY SCREEN	NING			
TIME	PID READ	DING (ppm)	CG/L	EL (%)	(standard/ppm)				

BG=Background:	B7=Breath	ning Zone: B	————— H—Boreho	ole: NR-No	Readings; HS=Hea	dense	o: S-Sample (unco	atained)
Du-Background,	DZ-Bicati	iing zone, b	1=Dotello	ne, MIL-INC	Readings, 113=11e	iuspac	e, s=sample (unco	ilaineu)
	·	т	✓ CHECK	ANALYSE	S REQUESTED		r.		
		B/	ARROW LA	AB			ANCHO	RAGE	E LAB
ANALYSES	/	C	ONTAINER	RS	ANALYSES	1	CON	TAINE	BS
		WAT		SOIL	7.147.12.10.20				1
		1	_n				WATER		SOIL
TPH	/	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 mi		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz
							<u> </u>	-	
<u> </u>				<u> </u>			1		1

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes: Bullen=BUL; Oliktok=OLl; Barter=BTR; Lonely=LON; Barrow=BRW; Wainwright=WRT; Lay=LAY; Lisburne=LIS

DATE: 8-26-93			SA	AMPLE	ID: LON-S	S01-S09				
RADAR STATION: F										
SITE/AOC: SSO	1 Sewage D	Disposal	FI	EET FR	OM FIXED	POINT: 65	N	AGNETIC HE	ADING	6: 225°
FIXED POINT: Bea	ach diesel f	ill line he	ad nor	th-north	west 65 fee	et along road.				
SAMPLE MATRIX:	Soil (S)		Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS:JM										
TIME SAMPLED: 1						(feet): Surface				
SAMPLE DESCRIPTI	ION/COMM	ENTS: F	ine sa	nd to co	oarse grave	el (fill material). Mois	st, no d	etectable odo	. VO	C-BTEX 8020
was collected in an 8										
SAMPLING METHOD										
QA/QC SAMPLES C	OLLECTED	:	quipm	ent Bla	nk (EB)	☐ QA/QC E	dra Vol	umes		
☐ Trip Blank (TB)			uplica	te of W	ater Sampi	e ID				
Ambient Condition	on Blank (A	B) 🗌 F	Replica	te of Sc	oil Sample	D				
	•			WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ -	TURBIDITY
							 			
<u> </u>										
	p. v 20 20 241 V. v 20 1									
			1984 - Sau Sau Sau S	MON	IITORING F	READINGS	jegorov i i sava		residenti di propinsi di seriesa di s	Professional State (1987)
		-				HANBY SCREET	VING			
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)	******			

					***************************************				+	
]		-				_	
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=Nc	Readings; HS=Hea	adspace	e; S=Sample	(uncoi	ntained)
			1	CHECK	ANALYSE	S REQUESTED		eko esti, siki tang Masa, si igi	3081 S437C	and the second second second
			BARF	ROW LA	λB			ANCHO	RAGE	LAB
ANALYSES			CON	TAINER		1,141,1672		001		
ANALISES				MINE		ANALYSES	1	CON	TAINE	HS
		V	/ATER		SOIL			WATER		SOIL
TPH	/	1 liter			8 oz	VOC (8260)		3 x 40 mi		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
			·							

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE	D: LON-S	S01-S10-4.0				
RADAR STATION: <u>P</u>	oint Lonely	<i>'</i>	W	EATHER	R: <u>Chilly, c</u>	cool, 40°F				
SITE/AOC: SS01							N	AGNETIC HEA	ADING	B: <u>225°</u>
FIXED POINT: <u>Bea</u>	ich diesel f	ill line, he	ad nor	th-north	west 65 fee	et along road.				
SAMPLE MATRIX: S SAMPLERS: JM,		□ s	edime	nt (SD)		Surface Water (SW)		Groundwater (GW)	
TIME SAMPLED: 11				PTH O	F SAMPLE	(foot): 4				
SAMPLE DESCRIPTION							dotoci	table oder VO	C DTI	
collected in an 8 oun			ino oui	10 10 111	<u>calarry</u> coar	se graver, moist. TVC	deteci	table odor. VO	0-011	_X 0020 Was
SAMPLING METHOD		ed scoop		-		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
QA/QC SAMPLES C			auipm	ent Bla	nk (FR)	□ OA/OC Ex	tra Vol	umes		
☐ Trip Blank (TB)						e ID		arrics		
☐ Ambient Conditio	n Blank (A									
					TER PARA					
TIME	PH		CON			1	005	0.510 0.54 (17)	, ,	
TIIVE	FR		CON	DUCTIV	/11 Y	TEMPERATURE	SPE	CIFIC GRAVITY	<u> </u>	URBIDITY
								. , , , , , , , , , , , , , , , , , , ,		
The suppose of the su	hinadakaka bilangan santa	oorana disa 1890waa	neken.	では多く変えない。	e i e Pakasan e e e		nisas no para			The state of the s
		94.		MON	IITORING F	READINGS				
TIME	PID REAL	DING (ppr	m)	CG/LF	EL (%)	HANBY SCREEN (standard/ppm)	NING			
	, 10 , 12, 11	5 . (pp.	.,	00,20	(/0)	(Glaridard/pprii)			+	
	·								_	
BG=Background;	BZ=Breath	ning Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (ı	uncor	itained)
e in the second	Land and a second		<i>J</i>	CHECK	ANALYSE:	S REQUESTED	refreshire estate	The Market of Color (Color (Co	**************************************	FW2 12.00.2
				ROW LA	*	NEGOEO 1ED		ANCHO	RAGE	IΔR
ANALYSES	/	ļ	CON	TAINER	IS .	ANALYSES	1	CONT	AINE	RS
		w	ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 i	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	AMPLE I	D: LON-S	S01-S11-2.5				
RADAR STATION: <u>P</u>	oint Lonely		W	EATHEF	R: Cloud	y, calm, cool				
SITE/AOC: SS01	Sewage D	Disposal	F	EET FR	OM FIXED	POINT: 13.5	M	AGNETIC HEA	DING	i: <u>335°</u>
FIXED POINT: Nor	theast corn	er of pur	np hou	use for F	POL storag	e				
SAMPLE MATRIX: 📕	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater (GW)	
SAMPLERS: <u>RT,</u>										
TIME SAMPLED: 11										
SAMPLE DESCRIPTION						el (fill material). Hea	vy petr	oleum staining,	heav	vy petroleun
odor, moist. VOC-BT										
SAMPLING METHOD										
QA/QC SAMPLES CO	OLLECTED									
☐ Trip Blank (TB)	on Dinoste (A))uplica	te of Wa	ater Sampl	e ID				
Ambient Conditio	n Blank (At	3) L H	leplica	te of So	oil Sample I	D				
				WA	TER PARA	METERS				
TIME	PH		CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	/ 7	TURBIDITY
							<u> </u>			
									-	·
							_		+	
	erandala (** 1. 1881) De gradierie (*)	d den ette samme	C. 14345 438	achea States No. o		on mariena				
				MON	IITORING F	READINGS				
						HANBY SCREEN	NING			
TIME	PID READ)ING (pp	m)	CG/LE	EL (%)	(standard/ppm)				
									+	
DO Barbara	D7 D ::							<u> </u>		
BG=Background;	BZ=Breath	ing Zone	;; BH=	:Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (ι	ncor	ntained)
			1	CHECK	ANALYSE	S REQUESTED				
			BARF	ROW LA	AB			ANCHO	RAGE	LAB
ANALVOEC			CON	ITAINER		1				
ANALYSES		<u> </u>			ıs I	ANALYSES	/	CONT	AINE	HS
		N N	VATER		SOIL			WATER		SOIL
TPH	/	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1		·			TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
								-		
		<u> </u>			L	1	L			

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SAMPLE I	D: <u>LON-SS</u>	01-S12-2.5						
RADAR STATION: P	oint Lonely		_WEATHER	R: <u>Cloudy</u>	, calm, cool						
SITE/AOC: SS01							MAGNETIC HE	EADIN	G: <u>265°</u>		
FIXED POINT: Nor	theast corn	er of pump	house for I	OL storage	9.						
SAMPLE MATRIX: SAMPLERS:JB,		☐ Sec	diment (SD)		Surface Water (SW)		Groundwater	(GW)			
TIME SAMPLED: 12			_ DEPTH O	F SAMPLE	(feet): 2.5						
SAMPLE DESCRIPTI						st. petr	oleum staining	, petro	oleum odor.		
VOC-BTEX 8020 was								11			
SAMPLING METHOD	: Dedicate	d scoop									
QA/QC SAMPLES CO	OLLECTED	: 🗌 Equ	uipment Blai	nk (EB)	☐ QA/QC Ex	tra Voli	umes				
☐ Trip Blank (TB)					ID						
☐ Ambient Conditio	n Blank (Al										
			WA	TER PARAM	METERS						
TIME	PH		CONDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY		
		TONOR CONTRACTOR	МОЙ	IITORING R	EADINGS						
TIME	PID READ	DING (ppm)) CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	IING					
				7-11-12-12-12-12-12-12-12-12-12-12-12-12-							
BG=Background;	BZ=Breath	ing Zone; (BH=Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample	uncor	ntained)		
		7.78.42.20.00.00.00.00.00.00.00.00.00.00.00.00	✓ CHECK	ANALYSES	REQUESTED	e ener elita	Property of the Property of th	(S.) (SA) (SA)			
		E	BARROW LA	ΛB			ANCHO	RAGE	LAB		
ANALYSES	/	(CONTAINER	RS	ANALYSES	/	CON	TAINE	RS		
		WA	TER	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
РСВ					SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40 m	1	4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				TDS		250 ml				
					TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	4MPLE I	D: LON-S	S01-S13-1.0				
	STATION: Point Lonely WEATHER: Overcast, chilly C: SS01 Sewage Disposal FEET FROM FIXED POINT: 2 MAGNETIC HEADING: Vicinity									
SITE/AOC: SS01	Sewage D	isposal	FE	EET FRO	OM FIXED	POINT: 2	M	AGNETIC HE	ADING	i: Vicinity
FIXED POINT: End	of fill line o	on beach	at val	ve.						
SAMPLE MATRIX:	Soil (S)	□s	Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: PG										
TIME SAMPLED: 12										
SAMPLE DESCRIPTI										
infilled hole outlet and) robo t	diesel). VO	OC-BTEX 8020 was	collecte	ed in an 8 oun	ce jar.	
SAMPLING METHOD										
QA/QC SAMPLES CO	OLLEGIED									
☐ Trip Blank (TB)	n Blank (Al		Juplica	ite of Sc	ater Sample	e ID				
☐ Ambient Conditio	II DIdiin (Ai	3) L F	1epiicai	TE OI 20	II Sample i	ט				
	· · · · · · · · · · · · · · · · · · ·			WA	TER PARA	METERS				
TIME	PH		CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ 1	TURBIDITY
					· · · · · · · · · · · · · · · · · · ·		+			
	 	-							-	
	Vision in the Court of									
	1906 Saster Manage of Special Statement		and the second	MON	IITORING F	READINGS			100 Parala Lan	States in 1884 in the contract of
		77.0					11110			****
TIME	PID READ	JING (pp	ım)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING			
						711 /	Professional Control of the Control		\dashv	
									-	· · · · · · · · · · · · · · · · · · ·
	7.8							<u> </u>	l	
BG=Background;	BZ=Breath	ing Zone); BH≕	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample	(uncor	ntained)
			1	CHECK	ANALYSE	S REQUESTED	erijas prijerijas		All Street	
						The document of the second		4110116		
			BAR	ROW LA		1		ANCHO)RAGE	: LAB
ANALYSES	1		CON	ITAINER	اد 	ANALYSES	1	CON	TAINE	RS
		M	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	mi		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 mi		
						TSS		250 ml		
						TOC		500 ml		4 oz
						TCLP		· 2 liters		2 x 8 oz
<u> </u>							<u> </u>	Ĺ		1

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SAMPLE	ID: LON-S	S01-S14-03					
RADAR STATION: Point Lonely WEATHER: Windy, chilly, 45°F										
SITE/AOC: SSO	1 Sewage [Disposal F	EET FR	OM FIXED	POINT: <u>10</u>	٨	MAGNETIC HE	ADING	G: West	
FIXED POINT: 5 to	10 feet we	est of drainage	pipe ou	tlet on bern	n at intersection of b	each a	nd main road.			
SAMPLE MATRIX: SAMPLERS: JM	` ,	☐ Sedim	ent (SD)		Surface Water (SW)		Groundwater	(GW)		
TIME SAMPLED: 1			EPTH C	E SAMDIE	(foot): 2					
SAMPLE DESCRIPT						ned bla	ck moist at a	idae o	f pormafroet	
VOC-BTEX 8020 was				gravon re	o odor, ongritty otdar	ica bia	on, moist, at e	age o	r permanosi	
SAMPLING METHOD										
QA/QC SAMPLES C	OLLECTED): 🗌 Equip	ment Bla	nk (EB)	☐ QA/QC E	tra Vol	umes			
☐ Trip Blank (TB)					e ID					
☐ Ambient Condition	on Blank (A	B) 🔳 Replic	ate of So	oil Sample I	D <u>LON-SS01-S02-</u>)3				
WATER PARAMETERS										
TIME	PH	СО	NDUCTI	VITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ -	TURBIDITY	
Personal and the second of			Street Control		- Company		NO.			
			ИОМ	NITORING F	READINGS	Park and the property of	The second secon	41-12-0-23-		
TIME	PID REAL	DING (ppm)	CG/L	EL (%)	HANBY SCREET (standard/ppm)	VING				
BG=Background;	BZ=Breath	ning Zone; BH	=Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncor	ntained)	
The second of th	u (1 kogunistasia kase 1 kuru - 1 kuru 1 ku	o de comença de la compansión de la comp	CHECK	ANALYSE	S REQUESTED	表別 學等項 的人。		**************************************	Mark de la companya	
		BAF	RROW LA	AB			ANCHO	RAGE	E LAB	
ANALYSES		СО	NTAINEF	RS	ANALYSES	/		TAINE		
		WATE		SOIL	ANALIGES		WATER		SOIL	
ТРН	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ]			SVOC (8270)		1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1				TDS		250 ml			
					TSS		250 ml			
					TOC		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			S/	AMPLE I	D: LON-S	S01-S15				
RADAR STATION: <u>P</u>	R STATION: Point Lonely WEATHER: Cloudy									
SITE/AOC: SSO	1 Sewage [Disposal	FE	EET FRO	M FIXED	POINT:	M/	AGNETIC HEAI	DING:	
FIXED POINT: Inst	pection pit s	south of p	oump	house (center).					
SAMPLE MATRIX:								Groundwater	(GW)	
SAMPLERS: <u>DP</u>										
TIME SAMPLED: 1	2:10		DE	EPTH O	F SAMPLE	(feet): 2'-8"				
SAMPLE DESCRIPTI	ON/COMM	ENTS: <u>W</u>	/ell so	ted fine	sands and	i some gravel, satura	ited, he	avy black stain	ing ar	nd detectable
odors. VOC-BTEX 8	020 and V	OC 8260	were o	collected	in 8 ound	ce jars.				
SAMPLING METHOD										
QA/QC SAMPLES C	OLLECTED									
☐ Trip Blank (TB)			uplica	te of W	ater Samp	e ID			·	
Ambient Condition	on Blank (A	B) 🗌 R	leplica	te of Sc	il Sample	ID				
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ -	TURBIDITY
							0. 20% 10 0(1)(4)		-	
to the series of	<u> San Alexa B</u> aranare d <u>e</u>	Mentineur Legister (1867) (1867) (1867)		MON	ITORING I	READINGS	<u>Area sa resire</u>	ere title ykkenstragolaria gra-	**************************************	Menterialistas periodicismosad
							NIN C			
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	HANBY SCREEI (standard/ppm)	NING			
						,			_	
										
			_,							
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (uncoi	ntained)
		<u> </u>	√	CHECK	ANALYSE	S REQUESTED	Chartest (No.2 right)	A Professor of the second of the Polymore	3900 C (F88)	Section (1990) (Section 1999)
			BAR	ROW LA	R			ANGUO	DA 0	TLAD
						4		ANCHO	HAGE	: LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		l w	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB						SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	/					TDS		250 ml		
						TSS		250 ml		
					177	тос		500 ml		4 oz
						TCLP		· 2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>		S	AMPLE I	ID: LON-S	S01-2S16-1				
RADAR STATION: P	oint Lonely	W	/EATHER	R: <u>100 pe</u>	ercent cloud cover, c	ushing	winds		
SITE/AOC: SS01	1 Sewage D	Disposal F	EET FRO	OM FIXED I	POINT: <u>50</u>	M	AGNETIC HEA	ADING	: Northwes
FIXED POINT: Fill	pipe on bea	ach							
SAMPLE MATRIX: SAMPLERS: DP.		☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 14		D	EPTH O	E SAMPLE	(feet): 1				
SAMPLE DESCRIPT		-				cation	moved from	20 fee	et. observed
contamination. VOC									
SAMPLING METHOD									
QA/QC SAMPLES C	OLLECTED	: 🗌 Equipr	nent Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)					e ID				
☐ Ambient Condition	on Blank (Al						-		
			WA	TER PARA	METERS				
TIME	PH	CON	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY
								Ì	
	100 miles 1000 1100 1100 1100 1100 1100 1100 11	The Control of the Co	MON	IITORING F	READINGS	ternaren o.	and the state of t		Sylvate o temperation and a
					HANBY SCREEN	 IING			
TIME	PID READ	DING (ppm)	CG/L	EL (%)	(standard/ppm)				
		198				· · · · · · · · · · · · · · · · · · ·			A
BG=Background;	BZ=Breath	ning Zone; BH:	=Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncor	ntained)
			CHECK	ANALYSE	S REQUESTED				
		BAR	ROW LA	∖B			ANCHO	RAGE	LAB
ANALYSES	1	COI	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS
		WATER	3	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes: Bullen=BUL; Oliktok=OLl; Barter=BTR; Lonely=LON; Barrow=BRW; Wainwright=WRT; Lay=LAY; Lisburne=LIS

DATE: <u>9-4-93</u>			SAM	IPLE ID	: <u>LON-SS</u>	S01-2S17-1				
RADAR STATION: P	oint Lonely	· · · · · · · · · · · · · · · · · · ·	WEA	ATHER:	100 pe	rcent cloud cover, o	justing	winds		
SITE/AOC: SS0	Sewage D	isposal	FEE	T FRO	M FIXED P	OINT: <u>15</u>	MAGN	ETIC HEADIN	G: <u>No</u>	rth-northeas
FIXED POINT: Fill										
SAMPLE MATRIX:			ediment	t (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: DP										
TIME SAMPLED: 14	4:15 ON/COMM	CNITO. VA	DEP	TH OF	SAMPLE	(feet): 1				
SAMPLE DESCRIPTI 8 ounce jar.	ON/COMM	EN 15: <u>W</u>	ren sorte	ed bead	n sands a	bove grey-green cla	ıy. VO	C-BTEX 8020	was co	llected in a
SAMPLING METHOD	D: Spade a	nd scoor)							
QA/QC SAMPLES C				nt Blani	k (FB)		tra Vol	imes		
☐ Trip Blank (TB)						e ID				
☐ Ambient Condition	n Blank (Al	B) 🗆 R	eplicate	of Soil	Sample II	0				
					ER PARAI					
TIME	PH		COND	UCTIVI		TEMPERATURE	QDE	CIFIC GRAVIT	~ T	URBIDITY
			00110	001101		TEIVIT CHATORE	3FE	CIFIC GRAVII	1 1	וועומחט
								7 . 317111	-	
	to Service Helician Service (C	3×. 64 ° 5. 1. 190 €	e4.000	MONI	TORING R	EADINGS		Carenersa e a la selata de la companya de la compa	Market Comment	
				~		HANBY SCREEN	IING		<u> </u>	
TIME	PID READ	NG (ppi	m)	CG/LE	- (%)	(standard/ppm)	NING			
		-								
	× 1777 1111 1	·								
BG=Background;	BZ=Breath	ing Zone	; BH=B	orehole		Readings; HS=Hea	dspac	e; S=Sample	(uncor	ntained)
			✓ CI	HECK /	ANALYSES	REQUESTED				
			BARRO	DW LAE	3			ANCHO	DRAGE	LAB
ANALYSES	/		CONTA	AINERS	}	ANALYSES	1	CON	TAINE	RS
		w	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>	A		SA	AMPLE I	ID: LON-S	S01-2S18-1,0				
RADAR STATION: F	Point Lonely	<u>'</u>	w	EATHER	R: <u>100 pe</u>	ercent cloud cover, s	trong o	gusty wind		
SITE/AOC: SSO					OM FIXED	POINT: <u>75</u>	M	IAGNETIC HEA	ADING	: Northwes
FIXED POINT: No.	thwest corr	ner of pu	mp ho	use						
			Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: DP										
TIME SAMPLED: 1						(feet): 1				
						ve grey-green clay. s collected in an 8 o			<u>novea</u>	from 47 fee
SAMPLING METHO				00-01	:X 0020 Wa	s collected in an 8 d	urice (a	체		
QA/QC SAMPLES C				ont Ria	nk (EB)	☐ QA/QC Ex	tra Val	umos		
☐ Trip Blank (TB)	OLLLOILD	-				e ID				
	on Blank (A					D				
	on Blank (7)	o,	Торпои	Far						
			1	WA	TER PARA	METERS	1			
TIME	PH		CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ	TURBIDITY
								,		
				-						
i tan talah saran masa dan mengan basar	entra de la Companya	iki di Kalendari Kalendari		MON	IITORING F	READINGS	MORRI STELLA ZA TERMINISTANIA TARIO TERMINISTANIA PER ANTI STELLA TERMINISTANIA PER ANTI STELLA TERMINISTANIA P			
						HANBY SCREET	IING		Т	
TIME	PID REAL	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)	VIIVG			

BG=Background;	BZ=Breath	ning Zone	e: BH=	Boreho	ole: NR=No	 Readings; HS=Hea	adspac	L e: S=Sample	(uncor	
	Colorest Colores San	200 - 200 -	aka kananga	Zana.		S REQUESTED	Ameliadas ar as est	· · · · · · · · · · · · · · · · · · ·		
		Ĭ		ROW LA		3 NEGOLSTED		ANCHE		
		ļ	DAN	HOW LA		-		ANCHO	HAGE	: LAD
ANALYSES	1		CON	ITAINEF	RS	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020 ✓						TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
							<u> </u>			

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>			SA	MPLE I	D: LON-S	S01-2S19-1.0					
	DN: Point Lonely WEATHER: Cloud cover, strong gusty winds SS01 Sewage Disposal FEET FROM FIXED POINT: 35 MAGNETIC HEADING: South										
SITE/AOC: SS01	Sewage D	isposal	FE	ET FRO	OM FIXED F	POINT: 35	N	IAGNETIC HEA	DING	i: South	
FIXED POINT: Sar											
SAMPLE MATRIX:	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater ((GW)		
SAMPLERS: <u>JB</u>											
TIME SAMPLED: 14						`					
SAMPLE DESCRIPTION									undra	grading into	
0.5 inches of black cos SAMPLING METHOD				I. VOC	-BIEX 8020) was collected in ar	1 8 oun	ce jar.			
QA/QC SAMPLES CO				ant Rla	av (EB)		tra Mali	:====			
GA/GO SAMFEES CO ☐ Trip Blank (TB)	JLLLO, LD.					e ID					
☐ Ambient Conditio	n Blank (Af	 3)	Replica	te of Sc	alor Gample II	י וה					
		-,			TER PARA						
TIRAC	T DU		CON			T	T 225	CITIC CDAVID			
TIME	PH		CON	IDUCTIV	/11 Y	TEMPERATURE	SPE	CIFIC GRAVIT	<u> </u>	URBIDITY	
	19 Alle Makka Shakara	s a new York belongstein	Led Surface	N THE CO.	THE RESERVE OF THE PARTY OF THE		8 10 6 8 7 1 DB	Trimpi Ed Scho ngun George Se.	rgra-udgrafa		
				MON	IITORING R	IEADINGS		Υ			
77,8,477	DID DEAG		,		/>	HANBY SCREEN	NING				
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)			-		
							-1-72				
BG=Background;	BZ=Breath	ing Zone	=; BH=	-Boreho	le: NR=No	Readings; HS=Hea	adspace	e: S=Sample (uncor	ntained)	
Constants on Constant and an indication of Constant			TERM SEAT .	and the ground		The second of th	EN HERMAN	Sex of Salassian Section 1	7 1 5 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	1			CHECK	ANALYSES	S REQUESTED					
			BAR	ROW LA	\В			ANCHO	RAGE	LAB	
ANALYSES	1		CON	ITAINER	RS	ANALYSES	1	CON	TAINE	RS	
		V	VATER	<u> </u>	SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020						TDS		250 ml			
				····	ļ	TSS		250 ml			
			.,			тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

		S/							-		
RADAR STATION: Point Lonely WEATHER: 100 percent cloud cover with gusting winds SITE/AOC: SS01 Sewage Disposal FEET FROM FIXED POINT: 75 MAGNETIC HEADING: Northeast											
SITE/AOC: SS01	Sewage [Disposal F	EET FRO	M FIXED I	POINT: <u>75</u>	\	MAGNETIC HE	ADINO	3: Northeas		
FIXED POINT: North											
SAMPLE MATRIX:		☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: <u>DP,</u> TIME SAMPLED: 14	PG, RT				// N 0						
		DI					0				
SAMPLE DESCRIPTION	O14/COIVIIVI	ENTS. VVEIIS	nteu san	as. voc-	BIEX 8020 was con	ectea II	n an 8 ounce j	ar.			
SAMPLING METHOD	: Spade a	and scoop									
QA/QC SAMPLES CO			ent Blan	k (ER)	☐ QA/QC E	tra Vol	umos				
☐ Trip Blank (TB)					e ID						
☐ Ambient Condition	n Blank (A	B) 🗌 Replica	te of Soi	l Sample I	D	, , , , , , , , , , , , , , , , , , , ,		-			
				ER PARA				N-			
TIME	PH		IDUCTIVI		TEMPERATURE	CDE	CITIC CDAVIT	,			
TIVIC	-	- 001	DUCTIVI	- T	TEMPERATURE	SPE	CIFIC GRAVIT	Y	TURBIDITY		
							W		W		
	MONITORING READINGS										
			MON	TORING	TEADINGS		T	1			
TIME	PID READ	DING (ppm)	CG/LE	l (%)	HANBY SCREET (standard/ppm)	NING					
		(30,22	_ (,0)	(otarioara/ppini)			_			
							<u> </u>	-			
BG=Background; I	BZ=Breath	ning Zone; BH=	Borehol	e; NR=No	Readings; HS=Hea	adspac	e; S=Sample (uncor	ntained)		
		1	CHECK	ANALYSE	S REQUESTED	Personal States of Confession		Carolina Resign			
		BAR	ROW LAI	3			ANCHO	RAGE	E LAB		
ANALYSES	/	CON	ITAINERS	· · · · · · · · · · · · · · · · · · ·	ANALYSES	/	CON	TAINE			
		WATER		SOIL	ANALIGES		WATER		SOIL		
TPH		1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
PCB					SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter	. "	8 oz		
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				TDS		250 ml				
					TSS		250 ml				
				·=···	TOC		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		
(**									<u> </u>		

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>9-4-93</u>			SA	MPLE I	D: LON-S	S01-2S21-1.5				
RADAR STATION: PO	N: Point Lonely WEATHER: Cloudy, windy, 39°F									
SITE/AOC: SS01	Sewage D	isposal	FE	ET FRO	M FIXED F	OINT: 32	_ MAG	NETIC HEADIN	1G: <u>S</u>	outheasterly
FIXED POINT: Dow	n elbow of	POL pip	oe, 32	feet alo	ng pipe inla	and, 10 feet perpend	icular t	o pipe to the e	ast.	
SAMPLE MATRIX:] Soil (S)		Sedime	nt (SD)		Surface Water (SW)		Groundwater (GW)	
SAMPLERS: <u>JB,</u>										
TIME SAMPLED: 15										
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>D</u>	ark bro	own to b	lack. Silty	clay to clay silt with n	noderat	e organics on c	rey-g	reen organic
poor clay. Moist, per	-									
SAMPLING METHOD										
QA/QC SAMPLES CO	DLLECTED									
☐ Trip Blank (TB)	n Diamir (Al)uplica	te of Wa	ater Sample	e ID		· · · · · · · · · · · · · · · · · · ·		
Ambient Condition	n Blank (Al	3) L F	replica	te of Sc	Sample I	D				
	1			WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	/ T	TURBIDITY
								, , , , , , , , , , , , , , , , , , ,		
					****		1		+	
				MON	IITORING F	READINGS				
					· · · · · · · · · · · · · · · · · · ·	HANBY SCREEN	IING			
TIME	PID READ	ING (pp	m)	CG/LEL (%)		(standard/ppm)				
									+	
DC Destant	27 5						· · · · · · · · · · · · · · · · · · ·		<u> </u>	
BG=Background; I	3Z=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	ıdspacı	e; S=Sample (uncor	ntained)
			1	CHECK	ANALYSE	S REQUESTED				
			BARF	ROW LA	В			ANCHO	RAGE	LAB
ANALYOFO			CON	TAINIED						
ANALYSES				TAINER	.S	ANALYSES	/	CONT	AINE	RS
		٧	VATER		SOIL			WATER		SOIL
TPH		1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020						TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
				Amit		TCLP		2 liters		2 x 8 oz
								1		
							1 !			

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to $\mathrm{4^{\circ}C}$

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>	-1-11		s	AMPLE I	D: LON-S	S01-SD01					
RADAR STATION: Point Lonely WEATHER: Cool, windy, 40°F SITE/AOC: SS01 Sewage Disposal FEET FROM FIXED POINT: 2 MAGNETIC HEADING: SW											
						POINT: 2	MA	AGNETIC HEA	DING:	SW	
FIXED POINT: Sou	ıthwest cori	ner pump	o hous	e for PC	DL storage			······································			
SAMPLE MATRIX: [SAMPLERS: DP.		S	Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)		
TIME SAMPLED: 10			ח	DTU O	COMMOLE	(feet):					
SAMPLE DESCRIPTION							roloum	odor VOC 92	60.22	AVOC BTEV	
8020 were collected			ILLUN III	10 00	aise sailu, s	some ime graver, per	<u>ioleaiii</u>	OUOI. VOC 62	go am	J VOC-B1E/	
SAMPLING METHOD			D C								
QA/QC SAMPLES C				nent Blai	nk (EB)	☐ QA/QC Ex	tra Vol	umae			
☐ Trip Blank (TB)	02220125					e ID	ila voi	urries			
☐ Ambient Condition	n Blank (Al				-						
				WA	TER PARA	METERS				museum * * * * * * * * * * * * * * * * * * *	
TIME	PH		CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y 7	TURBIDITY	
				·							
				MON	IITORING F	READINGS					
						HANBY SCREET	NING				
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)					
BG=Background;	BZ=Breath	ning Zone	e; BH=	Boreho	ile; NR=No	Readings; HS=Hea	adspac	e; S=Sample	uncor	ntained)	
and the second s	anni markinisi Ji		J	CHECK	ANALYSE	S REQUESTED			and and the		
			BAR	ROW LA	\B			ANCHO	RAGE	LAB	
ANALYSES			CON	ITAINER	 RS	ANALYSES		CON	TAINE	. BC	
ANALISES					I	ANALYSES	1		IAINE	I	
			VATER		SOIL			WATER		SOIL	
TPH	/	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
РСВ						SVOC (8270)	1	1 liter		8 oz	
PESTICIDES			·			TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020						TDS		250 ml			
				* .		TSS	,	250 ml			
						тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE I	D: LON-S	S01-SD02				
RADAR STATION: Point Lonely WEATHER: Cold, cloudy, breezy, 30°F, dry										
SITE/AOC: SS0	1 Sewage D	Disposal	FE	ET FR	OM FIXED	POINT: 31		MAGNETIC HEA	ADIN	G: <u>95°</u>
FIXED POINT: <u>Nor</u>										
SAMPLE MATRIX: [S	edimer	nt (SD)		Surface Water (SW)		Groundwater (GW)	
SAMPLERS: DP, M					-					
TIME SAMPLED: 12										
SAMPLE DESCRIPTI 8020 was collected in						tine gravel leachate	into wa	ater from gravel	pad.	VOC-BTEX
SAMPLING METHOD							-			
QA/QC SAMPLES C				ent Blai	nk (FB)	□ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)						e ID				
☐ Ambient Condition	n Blank (Al	B) 🗆 R	eplicat	e of Sc	oil Sample I	D				
			::::		TER PARA					
TIME	PH		CONI	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	, ,	URBIDITY
				300110		TEMILITATORE	1 3, 2	OI TO CHAVIT	+	UNDIDITT
						· · · · · · · · · · · · · · · · · · ·	-		\perp	
							:			
	The state of the s	eri seg kom bodo	90.014.07	MON	IITORING F	READINGS	A CONTRACTOR	Arcon nervana parti eta belos estas estas e	HARLING .	
				******		HANBY SCREEN	MING		\top	
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)	11110			
							· · · · · · · · · · · · · · · · · · ·		+	
DO D 1								<u> </u>	Щ.,	
BG=Background;	BZ=Breath	iing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (ι	ncor	ntained)
			1	CHECK	ANALYSE	S REQUESTED				
			BARR	ROW LA	√B			ANCHO	 Rage	LAB
ANIALVOTO			CON	TAINIED)C	1				
ANALYSES			CON	TAINER	15 	ANALYSES	1	CONT	AINE	RS
		l w	/ATER		SOIL			WATER		SOIL
TPH	/	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	mi		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
								1		
						<u></u>				1

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE I	D: LON-S	S01-SD03				
ADAR STATION: Point Lonely WEATHER: Cold, cloudy, 30°F, breezy										
SITE/AOC: SSO						POINT: 48.5	ا	MAGNETIC H	EADIN	G: <u>25°</u>
FIXED POINT: No.	rtheast corn	er pump	house	for PO	L storage					
SAMPLE MATRIX: [☐ Soil (S)	S S	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>DP</u>										
TIME SAMPLED: 1										
SAMPLE DESCRIPTI			ty san	d with s	ome fine gr	avel. Noticable petro	leum su	urfacing from o	igging	. VOC-BTE
8020 was collected i										
SAMPLING METHOL				. 51	. (55)					
QA/QC SAMPLES C Trip Blank (TB)	OLLECTED				` '	·				
☐ Imp Blank (18)	on Blank (Al		uplica	te of Sc	ater Sampli sil Sampla I	e ID				
Ambient Condition	on blank (Al	<i>b)</i> 🗀 n	epiicai	ie oi sc	on Sample i	υ <u> </u>				
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ	URBIDITY
				***************************************	***		 			
	**************************************	Samuel (1969) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984	LIDET SOL	AOM	IITORING F	READINGS	eroj. Tokacije	er er er de berkenige er freie	messi ecingii	
]			WICH	11101111401				т-	
TIME	PID READ	ING (nn	m)	CG/LE	EL (%)	HANBY SCREET (standard/ppm)	IING			
111714	110112712	упта (рр.	1117	OUILL	-2 (70)	(Standard/ppin)				
	 		-							
					ins.					
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	ie; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncor	ntained)
	e transcription and co	1990 oznak postube	Managara e e e e	CHECK	ANALVOE	S REQUESTED	Daggeri ingdog			
						S REQUESTED		,,		
			BARF	ROW LA	AB			ANCHO	DRAGE	LAB
ANALYSES	1		CON	TAINER	RS	ANALYSES	1	COV	TAINE	RS
		W	/ATER		SOIL			WATER		SOIL
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter	<u>.</u>	8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS	k.T.	250 ml	.		
				·*····		TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
<u> </u>		4			I			L		1

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE I	D: LON-SS	S01-SD04					
RADAR STATION: <u>P</u>											
SITE/AOC: SS01	Sewage D	Disposal	FE	ET FRO	OM FIXED F	OINT: 2	MA	AGNETIC HEAD	DING:	SW	
FIXED POINT: Sout	hwest corn	er of pur	nphou	se at Po	OL Storage						
SAMPLE MATRIX:	Soil (S)	S 5	Sedime	nt (SD)		Surface Water (SW)		Groundwater ((GW)		
SAMPLERS: <u>DP</u>											
TIME SAMPLED: 10						(feet):					
SAMPLE DESCRIPTI				ne to co	oarse sand.	Some fine gravel.	Petrol	eum odor. VO	C-BTE	X 8020 and	
VOC 8260 were colle SAMPLING METHOD											
QA/QC SAMPLES C				ont Pla	nk (EB)	Π 04/00 F ₁	+ro \/ol				
Trip Blank (TB)	OLLEGIED					e ID	tra voi	umes			
☐ Ambient Conditio	n Blank (Al										
					TER PARAI						
TIME	T DU I				 -	· · · · · · · · · · · · · · · · · · ·	Τ		. T.		
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	<u> </u>	URBIDITY	
A Second of the second	· · · · · · · · · · · · · · · · · · ·	The Atlantic opening	galfilm de	entine version (in the	Charledge (1984) (1994)		e has breeze again		34465333	No. Company of the Co	
	·	·····		MON	IITORING R	EADINGS					
				CG/LEL (%)		HANBY SCREEN	IING				
TIME	PID READ	DING (pp	m)			(standard/ppm)					
BG=Background:	BZ=Breath	ina Zone	· BH-	Boreho	le: NR-No	Readings; HS=Hea	denac	: S-Sample (uncor	tained)	
Da-Baokground;	BZ-BIOMI	ang Zone		- DOTOTO	ic, MIT=NO	rteadings, 115—11ea	iuspaci	s, 3—Sample (uncor	italileu)	
		r		CHECK	ANALYSES	REQUESTED					
			BAR	ROW LA	\B			ANCHORAGE		LAB	
ANALYSES			CON	ONTAINERS		451413/050		CONTAINE			
AIVALIOLO	_					ANALYSES	1		All VI		
			VATER		SOIL		-	WATER		SOIL	
TPH	/	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
PCB						SVOC (8270)	1	1 liter		8 oz	
PESTICIDES				_		TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
						TSS		250 ml			
			··			тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: $\mathrm{HNO_3}$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

				ID: LON-SS					
RADAR STATION: Po	int Lonely		_WEATHE	R: <u>Cloudy</u>	, 30°F				
SITE/AOC: SS01	Sewage D	isposal	_ FEET FR	OM FIXED	POINT: <u>37</u>	1	MAGNETIC HE	ADIN	G: <u>170°</u>
FIXED POINT: South	hwest corr	ner pump h	ouse for Po	OL storage				,	
SAMPLE MATRIX: ☐ SAMPLERS:DP,									
TIME SAMPLED: 10:	15	·	DEPTH C	E CAMPLE	(feet):				
SAMPLE DESCRIPTION	NI/COMM	ENTS: Valle	_ DEF III C	T SAIVIFLE	(reer).				
Orani LE DEGGIA 110	or vi O O I VII VI	LIVIO. <u>1011</u>	OWISH LINE						
SAMPLING METHOD:	Direct to	bottle							-
QA/QC SAMPLES CO			inment Bla	nk (FR)	☐ QA/QC Ex	tra Vol	umae	-	
☐ Trip Blank (TB)			-		ID LON-SS01-SW		umes		
☐ Ambient Condition	Blank (Al								
				TER PARAI					
TINAT	BU				1	Τ			
TIME	PH		ONDUCTI	VITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y	TURBIDITY
10:12	7.8	4	50		3°C				
								1	
	TO STATE OF THE PARTY OF THE PA	ana manakan jaka da da Manakan i	MOM	NITORING R	EADINGS	**************************************		(408) (3 * 1888))	
					HANBY SCREEN	VING			
TIME	PID READ	DING (ppm)	CG/LI	EL (%)	(standard/ppm)				
BG=Background; B	3Z=Breath	ing Zone; B	BH=Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(unco	ntained)
	and the state of t		✓ CHECK	(ANALYSES	REQUESTED		Annual Control of Paris Specification	e energia de la composição	
		В	ARROW LA	————— 4В		· ·	ANCHO	RAGE	E LAB
ANALYSES			ONTAINE				CONTAINERS		
ANALYSES	/		ONTAINER		ANALYSES	1		IAINE	1
		TAW	ER	SOIL	I .		WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB					SVOC (8270)	1	1 liter		8 oz
PESTICIDES			•		TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS	J	250 ml		
					TSS	1	250 ml		
					тос	>	500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE I	D: LON-S	S01-SW02				
RADAR STATION: P	oint Lonely		W	EATHER	R: Cold, d	cloudy, 30°F			-	
SITE/AOC: SS01	Sewage D	isposal	FI	EET FR	OM FIXED	POINT: <u>47</u>	N	MAGNETIC HE	ADINO	3: <u>170°</u>
FIXED POINT: Sou	thwest corr	ner pump	hous	e for PC	DL storage					
SAMPLE MATRIX:	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML										
TIME SAMPLED: 11	1:25		DE	EPTH O	F SAMPLE	(feet):				
SAMPLE DESCRIPTION	ON/COMM	ENTS: _								
SAMPLING METHOD): Direct to	hottle								
QA/QC SAMPLES CO			auinm	ent Bla	ok (EB)		tro Vol	ımas		
☐ Trip Blank (TB)	OLLLOTED					e ID				
Ambient Conditio	n Blank (Al	B) 🗆 R	Replica	te of Sc	oil Sample I	D				
			•		TER PARA					
TIME	PH		CON	DUCTIV		TEMPERATURE	SPE	CIFIC GRAVIT	γ ₁	URBIDITY
	8.1		90			4°C	+		`	0.15.5.1.1
	0.1					1 4 0	-			
	-						<u> </u>		_	
	The state of the s	Dan es a succionad								
			AMERICAN AND AND A	MON	IITORING F	READINGS			Progress of the Section Sectio	
						HANBY SCREEN	VING			***************************************
TIME	DING (pp	m)	n) CG/LEL (%)		(standard/ppm)					
		-			3 393.50					
BG=Background	BZ=Breath	ina Zone	· BH-	·Roreho	le: NR-No	Readings; HS=Hea	danaa	o: C - Comple	(,,,,,,,,,	ntainad)
The Control of the Co	oz-bioda.	ing Zone	Herely May I have	pactage - co	n a na Tagas Salahasina ng P	The form of the Committee of the	uspaci	e, s=sample	,uncor	itairieu)
		Y		CHECK	ANALYSE	S REQUESTED	f			
			BAR	ROW LA	\B			ANCHORAGE		LAB
ANALYSES	1		CON	TAINER	IS	ANALYSES	1	CON	TAINE	RS
		N	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	/					TDS		250 ml		
						TSS		250 ml		
						TOC		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO $_3$ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	AMPLE	ID: LON-S	S01-SW03				
ADAR STATION: Point Lonely WEATHER: Cold, cloudy, breezy, dry, 30°F										
SITE/AOC: SS01 Sewage Disposal FEET FROM FIXED POINT: 31 MAGNETIC HEADING: 95° FIXED POINT: Northeast corner of pump house for POL storage.										
SAMPLE MATRIX: SAMPLERS: <u>DP,</u>				nt (SD)		Surface Water (SW)		Groundwater (G	W)	
TIME SAMPLED: 12					F SAMPLE	(feet): Surface to 6	inches	•		
SAMPLE DESCRIPTION									water	
SAMPLING METHOD	: Direct to	bottle								
QA/QC SAMPLES CC	DLLECTED	: 🗆 E	quipm	nent Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)			uplica	te of W	ater Sampl	e ID				
Ambient Condition	n Blank (A	B) 🗌 R	eplica	te of Sc	oil Sample I	D				
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTI	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	TURBIC	YTIC
12:00	8.3		200			5°C	Fres	h water	<0.000	11
The state of the s			Kadi Kabatan, ali 1944	МОМ	IITORING F	READINGS				
TIME	HANBY SCREENING									
THVIC	TIME PID READING (ppm) CG/LEL (%) (standard/ppm)									

BG=Background; E	3Z=Breath	ing Zone;	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (ui	ncontained	1)
			√	CHECK	ANALYSE	S REQUESTED				
			BAR	ROW LA	ΛB			ANCHOR	AGE LAB	
ANALYSES	/		CON	TAINER	IS	ANALYSES	1	CONTA	INERS	
	~~~~	W	ATER		SOIL			WATER	so	)IL
TPH	J	1 liter			8 oz	VOC (8260)		3 x 40 mi	4 oz	
PCB						SVOC (8270)		1 liter	8 oz	
PESTICIDES						TOTAL METALS		1 liter	8 oz	
HVOC 8010		1 x 40 r	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1		-			TDS		250 ml		
						TSS		250 ml		
						тос		500 ml	4 oz	
			·			TCLP		2 liters	2 x 8	3 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE I	D: LON-SS	S01-SW04						
							eezy, cold, clear, 40°F					
SITE/AOC: SS01								MAGNETIC HE	ADIN	G: <u>95°</u>		
FIXED POINT: North	neast corne	of pum	ip hous	se for P	OL storage	)						
SAMPLE MATRIX:	] Soil (S)	□s	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS:JM,												
TIME SAMPLED: 14						(feet): 0 to 6 inches	S					
SAMPLE DESCRIPTION	ON/COMM	ENTS: A	mber (	colored	water, veg	etative silty bottom						
										<u> </u>		
SAMPLING METHOD												
QA/QC SAMPLES CO												
☐ Trip Blank (TB)	01 1 /4	D	ruplicat	te of Wa	ater Sample	e ID						
☐ Ambient Condition	n Blank (Al	3) L H	eplicat	e of So	il Sample I	D						
	<del></del>	<del></del>		WA	TER PARA	METERS						
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ	TURBIDITY		
14:00	8.2		190			6°C	Fres	h Water	Ī  .	<0.0001		
								1046				
							†					
		Bariologi, p. 200865	રાક કર્યું છે.	Special design of the St	sa . TS 2898 And Suns .	the state of the Mark State of		energi komuniya da sa sa Sangara sa	South 20 7 6 7 8 7 8	Manggaga and Astronomy of the		
				MON	ITORING F	READINGS						
				m) CG/LEL (%)		HANBY SCREEN	NING					
TIME	PID READ	ING (ppi	m)			(standard/ppm)						
							7715		_			
PG-Packground: I	P7—Brooth	Zono		D = ln = 1	. ND N-							
BG=Background, i	3∠=bream	ing zone	; BH=	Boreno	le; NH=No	Readings; HS=Hea			(uncor	ıtained)		
			1	CHECK	ANALYSE	S REQUESTED						
			BARF	ROW LA	.B			ANCHO	RAGE			
ANALYSES			CONTAINERS			ANALYSES	1	CON	TAINE	RS		
		w	/ATER		SOIL		-	WATER		SOIL		
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz		
РСВ						SVOC (8270)	1	1 liter		8 oz		
PESTICIDES						TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1					TDS	1	250 ml				
						TSS	1	250 ml				
						TOC	1	500 ml		4 oz		
						TCLP		· 2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

 $Bullen=BUL; \ Oliktok=OLI; \ Barter=BTR; \ Lonely=LON; \ Barrow=BRW; \ Wainwright=WRT; \ Lay=LAY; \ Lisburne=LISSSA And Mainwright=WRT; \ Lay=LAY; \ Lay=LAY; \ Lisburne=LISSSA And Mainwright=WRT; \ Lay=LAY; \$ 

DATE: <u>8-26-93</u>			S/	AMPLE	ID: <u>LON-S</u>	S01-SW05				
RADAR STATION: P	oint Lonely	/	w	EATHER	R: <u>Cold, e</u>	cloudy, breezy, 30°F				
SITE/AOC: SS01	Sewage D	Disposal	F	EET FR	OM FIXED	POINT: <u>48.5</u>	М	AGNETIC HE	ADING	i: <u>25°</u>
FIXED POINT: Nor	theast corn	er of pur	np hoi	use for I	POL storag	e	****			
SAMPLE MATRIX: DP,		□s	edime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 11			DE	EPTH O	F SAMPLE	(feet): Surface, 0 to	2 inch	nes		
SAMPLE DESCRIPTION Shoulder.									eping	in from roa
SAMPLING METHOD	: Disposa	ble scool	р							
QA/QC SAMPLES CO	OLLECTED	): 🗆 E	auipm	nent Blai	nk (EB)	□ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)						e ID				
☐ Ambient Conditio	n Blank (A									
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVI	ry -	TURBIDITY
11:30	7.8		120			5°C	Fres	h Water		<0.0001
	<del></del>									
		especify for the Helling State (Colonia)		MON	IITORING F	READINGS				e ligar
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	HANBY SCREET (standard/ppm)	NING			
			774							
			***************************************							
BG=Background;	BZ=Breath	ning Zone	; BH=	Boreho	ie; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(unco	ntained)
			J	CHECK	ANALYSE	S REQUESTED				
			BAR	ROW LA	lΒ			ANCH	ORAGE	E LAB
ANALYSES	1	:	CON	TAINER	IS	ANALYSES	1	CON	ITAINE	RS
		W	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES			***************************************			TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
			<del></del>			TSS		250 ml		
						тос		500 ml	T	4 oz
						TCLP		2 liters		2 x 8 oz
							<u> </u>			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>		S	AMPLE	ID: LON-S	30 <u>1-</u> SW <u>06</u>						
RADAR STATION: Po	oint Lonely	<u>/</u> w	VEATHER	R: Cloudy	/, 30°F						
SITE/AOC: SS01	Sewage D	Disposal Fi	EET FRO	OM FIXED F		N	IAGNETIC HE	ADING	à: <u>170°</u>		
FIXED POINT: South	hwest corn	ner pump hous	e for PO	L Storage							
SAMPLE MATRIX:	] Soil (S)	☐ Sedim	ent (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: <u>DP.</u>	ML										
TIME SAMPLED: 10	<u>::15</u>	D	EPTH O	F SAMPLE	(feet):						
SAMPLE DESCRIPTION	ON/COMM!	ENTS: Yellow	ish tint								
SAMPLING METHOD	Direct to	- الله عا				•			<del></del>		
SAMPLING METHOD  OA/OC SAMPLES CO			+ Dia		T 01/00 F						
QA/QC SAMPLES CC ☐ Trip Blank (TB)	JLLEUTED.				QA/QC EX D <u>LON-SS01-SW</u>		umes				
☐ Ambient Condition	n Blank (Al	B)   Replica	ate of Sc	ater Sample vil Sample II	) ID <u>FON-2201-244</u>	דט					
									7.02		
	<del></del>		WA	TER PARAM	METERS	<del></del>		<del></del>			
TIME	PH	CON	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   1	TURBIDITY		
10:15	7.8	450			3°C		-				
						<del> </del>		_			
	1					-		$\dashv$			
	Bootstaning and the state	ti - Tronggan et anggan e				10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (	District Control of the Control of t	ment ge			
			MON	ITORING R	EADINGS						
					HANBY SCREEN	NING					
TIME	TIME PID READING (ppm)				(standard/ppm)						
RG-Rackground: F	27-Breath	ring Zong: BU.	Paraba	I NID NI-	2 110 11	<del></del> -		J			
Bu-background, E	JZ — Dream	ing zone, bit-	-boreno	ie; ivin=ivo	Readings; HS=Hea	adspace	∍; S=Sampie (	uncor	ıtained)		
		<b>✓</b>	CHECK	ANALYSES	REQUESTED						
		BAR	ROW LA	\B			ANCHO	RAGE	LAB		
ANALYSES		000	NTAINER	10	_		CONTAINERS				
ANALISES				S	ANALYSES	1	CON	TAINE	RS		
		WATER	{	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz		
РСВ		İ			SVOC (8270)	1	1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				TDS	1	250 ml				
					TSS	1	250 ml				
									4		
					TOC	<b>✓</b>	500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE DRUM STORAGE AREA (ST02)

DATE: <u>08/26/93</u>			SA	AMPLE	ID: LON-S	T02-S01-3					
RADAR STATION: P	oint Lonely WEATHER: Cold, cloudy, cool, 40°F										
		el Pad FEET FROM FIXED POINT: MAGNETIC HEADING: SW									
FIXED POINT:	<del></del>										
SAMPLE MATRIX:			Sedime	ent (SD)		Surface Water (SW)		Groundwater (0	GW)		
SAMPLERS: JM, PC											
TIME SAMPLED: 15						. ,					
SAMPLE DESCRIPTION	ON/COMM	ENTS: S	Stained	area to	ward south	west end of berm.	Collect	from surface to	bott	om of visible	
stain from bbl auger.					sand, fine	gravel (fill material),	mediur	m moist, visible l	POL	staining and	
odor persists through											
SAMPLING METHOD  QA/QC SAMPLES CO  Trip Blank (TB)		: 🗆 E	quipm	nent Bla		QA/QC Ex				<del>-</del>	
☐ Ambient Condition	n Blank (A	B) 🗆 F	Replica	te of Sc	oil Sample II	D					
			·····		TER PARA						
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	QDE	CIFIC GRAVITY	Τ,		
	<del>                                     </del>		001	BOOTI	<del>////</del>	TEMPERATURE	J SFE	CIFIC GRAVITY		URBIDITY	
									4_		
	u Douglas de la compa	den i Nastalena	ruserum fili	MON	IITORING F	READINGS			22200		
				IVIOI	aronina r			1	Т		
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	HANBY SCREEI (standard/ppm)	NING				
								- 01	1		
DC Posterous to	27 . D 41-										
BG=Background; E	3Z=Breath	ling Zone	e; BH=	Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample (u	ncor	ntained)	
		r	1	CHECK	ANALYSE	S REQUESTED					
			BARF	ROW LA	<b>λ</b> Β			ANCHOR	AGE	LAB	
ANALYSES	1		CON	TAINER	RS	ANALYSES	1	CONTA	VINE	RS	
		v	/ATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ	1					SVOC (8270)		1 liter		8 oz	
PESTICIDES	1					TOTAL METALS		1 liter	<del></del>	8 oz	
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020			_			TDS		250 ml			
						TSS		250 ml			
						тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	
	2 100 2 2 3 02										

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO3 to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

Bullen=BUL; Oliktok=OLI; Barter=BTR; Lonely=LON; Barrow=BRW; Wainwright=WRT; Lay=LAY; Lisburne=LIS And Anti-Advanced Control of the Control

DATE: <u>08/26/93</u>			SA	MPLE I	D: LON-ST	02-S02					
RADAR STATION: P	AR STATION: Point Lonely WEATHER: Foggy, cool										
SITE/AOC: ST02 Gra	avel Pad		FE	ET FRO	M FIXED F	POINT:	_ MAG	GNETIC HEAD	ING:	SW	
FIXED POINT: Inters	ection of ro	ad and C	Gravel	Pad.							
SAMPLE MATRIX:		□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: JM, PC											
TIME SAMPLED: 15											
SAMPLE DESCRIPTI						ponded area near/	betwee	n road and pa	<u>.a. Fi</u>	ne sands to	
medium gravel (fill m SAMPLING METHOD					nts.						
					-I- (CD)	П 04/00 Г					
QA/QC SAMPLES CO	OLLECTED										
<ul><li>☐ Trip Blank (TB)</li><li>☐ Ambient Conditio</li></ul>	n Plank (At					ID					
L Ambient Conditio	III DIAITK (AL	) L N	epiicai	ie oi 30	ii Sample ii						
				WA	TER PARA	METERS					
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY	
			<del></del>		-						
		ļ									
<ul> <li>Verte regione de Agrica de Santa de Mariente de Lorgina de la composição de la</li></ul>			Sall X Associ	MON	ITORING R	EADINGS				CONTROL CONTROL OF THE	
				IVION	HUNING H	EADINGS		1			
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING				
									<del>                                     </del>		
					<del></del>			ļ			
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (	uncor	ntained)	
			1	CHECK	ANALYSES	S REQUESTED			***************************************		
			BARF	ROW LA	λB			ANCHO	RAGE	LAB	
ANALYSES	1		CON	TAINER	S	ANALYSES	<i>s</i>	CON	TAINE	RS	
		V	/ATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
РСВ	1					SVOC (8270)	1	1 liter		8 oz	
PESTICIDES						TOTAL METALS	1	1 liter		8 oz	
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
						TSS		250 ml	,		
						тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>			SA	MPLE II	D: <u>LON-ST</u>	02-803				
RADAR STATION: <u>P</u>	oint Lonely		WE	EATHER	R: Foggy, c	ool				
SITE/AOC: ST02 Gra	avel Pad		_ FE	ET FRO	M FIXED F	OINT: <u>10</u>	_ MAG	GNETIC HEAD	ING:	SW
FIXED POINT: South	west corne	r of grave	l pad.							
SAMPLE MATRIX: 📕	Soil (S)	☐ Se	dimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>JM, PC</u>								·		
TIME SAMPLED: 09										
SAMPLE DESCRIPTI	ON/COMM	ENTS: <u>S</u>	03 ar	nd SW0	<ol><li>Tundra</li></ol>	material, saturated,	high (	organic conter	nt at e	dge of clay
layer. SAMPLING METHOD	). Spado a	nd scoop		,						
QA/QC SAMPLES C				ont Plan	ok (ED)	D 04/00 Fx	tro Moli			
☐ Trip Blank (TB)	JELEO I ED.					ID				
☐ Ambient Conditio								77.77		<del> </del>
			-		TER PARA					
TIRAL	DU		001				Lope			
TIME	PH		CON	DUCTIV	ПҮ	TEMPERATURE	SPE	CIFIC GRAVIT	Y   1	URBIDITY
									-	
			igeneralis.	MON	UTODINO 5	FADINGS			was 15 C To C T	
				MON	ITORING R	EADINGS			-	
TIME	PID READ	ING (nor	n)	CG/LE	-1 (%)	HANBY SCREEN (standard/ppm)	IING			
,,,,,,	1 10 112/10	ушта (ррп	'''	00, LL	- ( /0)	(Startdard/ppiri)				
									_	
BG=Background;	BZ=Breath	ing Zone;	BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncor	ntained)
			<b>,</b>	CHECK	ANALYSES	S REQUESTED		Sphales are laster to 1700 Floor	1000 224	
			BARF	ROW LA	.B			ANCHO	RAGE	LAR
4411/050							_			
ANALYSES	<b>/</b>			TAINER		ANALYSES	1	CON	TAINE	
		W/	ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ	1					SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40 r	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
			·			TSS		250 ml		
						тос		<b>500</b> ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>		S	AMPLE I	D: <u>LON-ST</u>	02-S04						
RADAR STATION: Point Lonely WEATHER: Foggy cool  SITE/AOC: ST02 Gravel Pad FEET FROM FIXED POINT: 10 MAGNETIC HEADING: West											
SITE/AOC: <u>ST02 Gra</u> FIXED POINT:		F	EET FRO	M FIXED P	OINT: <u>10</u>	_ MAG	GNETIC HEAD	ING: _	West		
SAMPLE MATRIX:	Soil (S)	☐ Sedim	ent (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: <u>JM, PG</u>			EDTU O	E O A MOU E	/f 1\ ·						
TIME SAMPLED: <u>09</u> SAMPLE DESCRIPTIO		D D				tra mat	orial odge of	slav lav	vor no odor		
in ponded area at edg			iu 34403	leachate/ru	non nom pau. Tune	ira iiiai	enai, euge or t	Jay la	ver, no odor		
SAMPLING METHOD	· · · · · · · · · · · · · · · · · · ·										
QA/QC SAMPLES CC			nent Blaz	nk (ER)	□ 04/0C Ev	ra Voli	ımas				
☐ Trip Blank (TB)	JEELOTED.				ID						
☐ Ambient Condition	n Blank (AF										
				TER PARAM							
TIME	PH	COL	NDUCTIV		TEMPERATURE	SPE	CIFIC GRAVIT	γТτ	URBIDITY		
		oseovinos, estas, especialistas de e	MON	IITORING R	EADINGS		The North Control of the Part of the Control of the	494. ZZ (OZONY			
		)NG ()	00/15	=1 (0()	HANBY SCREEN	IING					
TIME	PID REAL	DING (ppm)	CG/LE	=L (%)	(standard/ppm)			_			
BG=Background; I	BZ=Breath	ing Zone; BH	=Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncor	ntained)		
	Na. 1988	Pareto de Joseph Pareto de Los de J	CHECK	ANALYSES	REQUESTED		(Colombia				
		BAF	RROW LA	√B		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ANCHO	RAGE	LAB		
ANALYSES	1	СО	NTAINEF	 RS	ANALYSES	1	CON	TAINE	RS		
		WATE	R	SOIL	•		WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
РСВ	1				SVOC (8270)		1 liter		8 oz		
PESTICIDES			•		TOTAL METALS		1 liter		8 oz		
HVOC 8010											
VOC-BTEX 8020	/				TDS		250 ml	102			
					TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>			SA	MPLE	D: LON-ST	Г02 <u>-</u> S05					
	ION: Point Lonely WEATHER: Cloudy, breezy, cold										
					)M FIXED F	OINT: 10	MAG	GNETIC HEAD	ING:	NW	
FIXED POINT: Sampl											
SAMPLE MATRIX: 🛮	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: JM, PG											
TIME SAMPLED: 09:						(feet): <u>0 - 0.5</u>					
SAMPLE DESCRIPTION			<u>3ample</u>	for sur	face runoff	and leachate from	oad. F	ine to medium	sand	s and minor	
gravels, trace organic SAMPLING METHOD:	<del></del>										
QA/QC SAMPLES CC				ont Blar	~ (CR)		+ \/oli	:=====			
□ Trip Blank (TB)	/LLEO I L.D.					QA/QC Ex					
☐ Ambient Condition	n Blank (Af							<del></del>			
					TER PARAI						
TIME	T		CON				1 205	CITIO ODANIIT		::::::::::::::::::::::::::::::::::::::	
TIME	PH		CON	DUCTIV	/N Y	TEMPERATURE	SPE	CIFIC GRAVIT	Y   '	URBIDITY	
							<u> </u>				
190 Million primite set in a fine set in the	100 His	a taga da a sa da	talka (Sign) yai							16931/02/2014 Washing	
				MON	IITORING R	EADINGS		1			
TIME	חום מבער	NINC (nn	\	00/15	-! (0/)	HANBY SCREEN	NING				
TIVIE	PID READ	JING (PP	<u>/m)</u>	CG/LE	<u>-L (%)</u>	(standard/ppm)			_		
BG=Background; 8	—— 3Z=Breath	ing Zone	 э; ВН=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e: S=Sample (	uncor	ntained)	
TO THE SECOND STATE OF THE SECOND SEC		0 1.74 <u></u>	(96) (10) 3	er Koelgul stall secr	o gastalianismos es	Color Processing and Color Color	berotopersess		(2018) (2017) (1) P		
		ī -		CHECK	ANALYSE	S REQUESTED			·		
			BAR	ROW LA	\B			ANCHO	RAGE	LAB	
ANALYSES	1		CON	ITAINER	is	ANALYSES	1	CON	TAINE	RS	
		v	VATER		SOIL	***************************************		WATER		SOIL	
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB	1					SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010	HVOC 8010  ✓ 1 x 40 ml 4 oz							1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
						TSS		250 ml			
						тос		500 ml		4 oz	
						TCLP		· 2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $4^{\circ}\mathrm{C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>	· · · · · · · · · · · · · · · · · · ·	S	AMPLE I	D: LON-ST	02-S06-2.0				
RADAR STATION: Po	int Lonely WEATHER: Cloudy, breezy, cold  vel Pad FEET FROM FIXED POINT: MAGNETIC HEADING:								
SITE/AOC: ST02 Grav	vel Pad	F	EET FRO	OM FIXED F	POINT:	_ MAC	SNETIC HEAD	ING: _	
FIXED POINT: Center	of gravel	pad	<del></del>						
SAMPLE MATRIX:		☐ Sedim	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
		D	EDTU O	C CAMPLE	(fact): 0.0				
TIME SAMPLED: 10:						ا حاجاتات		<u> </u>	
SAMPLE DESCRIPTIO Sands and gravel fill n					tom of stained area	/ISIDIE I	n auger core.	Snove	ed to 2 feet
SAMPLING METHOD:			stains c	or odor.					
			. 51	· (ED)					.,,
QA/QC SAMPLES CO	ILLEGIED								
☐ Trip Blank (TB)	Diam'r (Af				ID				
Ambient Condition	Blank (Al	3) $\square$ Replica	ate of So	ii Sampie it	)			4	
	1		WA	TER PARAM	METERS	1	····		
TIME	PH	COI	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	YT	URBIDITY
						<u> </u>			
COMPANIES AND THE COMPANIES AN			Managara (Labo est. 1965)						
The state of the s			MON	IITORING R	EADINGS			A CONTRACTOR	
TIME	PID REAL	DING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	IING			
THILL	TID NEAL	лича (ррии)	CG/LE	L (%)	(Standard/ppm)				
BG=Background; B	R7—Broath	ing Zono: BH	-Rorobo	lo: NP-No	Pandings: US_Us	donoo	a: C_Cample	(uncor	atained)
Ba-background, E	DICANI	ation in the property of the state of the st	. T > 13463 subodzie	56.20(8.36)27 (Fra) - 7		uspaci	e, 0-0ampie	(uncor	italiieu)
			***		REQUESTED		***************************************		
		BAF	ROW LA	\B			ANCHO	RAGE	LAB
ANALYSES	/	COI	NTAINEF	IS	ANALYSES	1	CON	TAINE	RS
		WATE	3	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ	1				SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>			SA	MPLE I	D: LON-S	T02-S07				
RADAR STATION: P	oint Lonely		WE	EATHER	R: <u>Cloudy,</u>	breezy, cold				
SITE/AOC: ST02 Gra	avel Pad		FE	ET FRO	M FIXED	POINT:	_ MAG	NETIC HEADIN	۰ ۱G: _	East
FIXED POINT: Samp	ole collected	d from ea	st side	of gra	vel road.					
SAMPLE MATRIX:	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>JM, PC</u>										
TIME SAMPLED: 09										
SAMPLE DESCRIPTION	ON/COMM	ENTS: <u>Tı</u>	<u>ındra ı</u>	material	, high orga	nic material, black co	olor, str	ong reduced or	ganic	: matter odor
present.										
SAMPLING METHOD										
QA/QC SAMPLES CO	OLLECTED					☐ QA/QC Ex				
☐ Trip Blank (TB)		□ D	uplicat	e of Wa	ater Sample	e ID				
☐ Ambient Conditio	n Blank (Al	B) 🗌 R	eplicat	e of So	il Sample I	D				
				WA	TER PARA	METERS				
TIME	PH		CONI	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVITY	$\sqrt{1}$	TURBIDITY
							1			
	<del>-  </del> -								+	
					1676 - HILLS A.		ļ			
			Aliania (	MON	ITORING F	READINGS	and the strategy		#### (*********************************	
						HANBY SCREE	WING.		$\top$	
TIME	PID READ	ING (ppr	n)	CG/LE	EL (%)	(standard/ppm)	VIIVG			
									1	
									+-	
	···									
BG=Background; I	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (u	ncor	ntained)
		er ender gegen der der seite	✓ (	CHECK	ANALYSE	S REQUESTED		The second secon		
			BARE	ROW LA	.B			ANCHO		IAR
						-		ANCHO	TAGE	LAD
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CONT	AINE	RS
		W	ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 mi		4 oz
PCB	1					SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40 ı	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
				-						

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>			SA	MPLE II	D: <u>LON-S</u> T	02-S08					
RADAR STATION: Po	AR STATION: Point Lonely WEATHER: Foggy, cool, 45°F										
SITE/AOC: ST02 Gra	vel Pad		FE	ET FRO	M FIXED F	OINT: 10	M/	AGNETIC HEA	DING:	NE	
FIXED POINT: Samp	le collected	d northea	ist of g	ravel pa	ad						
SAMPLE MATRIX:		□s	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: JM, PG		· · · · · · · · · · · · · · · · · · ·									
TIME SAMPLED: 10											
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>T</u>	undra	material	l, organic r	ch clays, fine sand	and gr	avel fill materia	al, moi	st, abundan	
organic matter.										, , , , , , , , , , , , , , , , , , ,	
SAMPLING METHOD											
QA/QC SAMPLES CO	DLLECTED										
☐ Trip Blank (TB)						ID					
☐ Ambient Condition Blank (AB) ☐ Replicate of Soil Sample ID											
				WA	TER PARA	METERS					
TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ү   т	URBIDITY	
-											
Terror and the second s	A construction and a second	Professional Colors						MARKET SERVICE STATES	(STORES NAME OF STREET	Andread Control of the Control of th	
		···	т	MON	ITORING R	EADINGS					
						HANBY SCREEN	IING		1		
TIME	PID READ	ING (pp	<u>m)</u>	CG/LE	L (%)	(standard/ppm)	****				
						ļ					
								1			
BG=Background; I	BZ=Breath	ing Zone	; BH=I	Borenoi	e; NH=No	Readings; HS=Hea	aspac	e; S=Sample	(uncor	itained)	
			✓ (	CHECK	ANALYSES	S REQUESTED					
			BARE	ROW LA	R			ANCHO	BAGE	IAR	
			יאורט					ANOTIC	MAGE		
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS	
		W	VATER		SOIL			WATER	No. of the Control of	SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 mi		4 oz	
РСВ	1					SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010	HVOC 8010										
VOC-BTEX 8020	1					TDS		250 ml			
						TSS		250 ml			
					- 200	тос		500 ml	······································	4 oz	
				*****		TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/04/93</u>			SA	MPLE II	D: LON-ST	02-2809-1.5				
	ATION: Point Lonely WEATHER: Cloudy, windy, 39°F									
SITE/AOC: ST02 Gra	vel Pad		FE	ET FRO	M FIXED F	OINT: <u>77</u>	MA	AGNETIC HEA	DING:	SW
FIXED POINT: South	west corne	r of ST02	2 Pad.							
SAMPLE MATRIX: 🔲	Soil (S)	□ \$	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>PG, JB</u>										
TIME SAMPLED: 16					SAMPLE					
SAMPLE DESCRIPTION						o black tundra mate	rial, no	clay or other	soil la	yer present,
material persists to pe				to satu	irated.					
SAMPLING METHOD			-							
QA/QC SAMPLES CC	DLLECTED:									
☐ Trip Blank (TB)	- Dii- (Af					ID				
Ambient Condition	n Blank (Al	3) LJ H	eplicat	e of So	ii Sample IL					
				WA ⁻	TER PARAM	METERS				
TIME	PH		CON	DUCTIV	TTY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY
							1			
	<u> </u>				******		<u> </u>		$\perp$	
	Transcription and the second									
		Milliothe Labour, American Page	Net Till willed Service a	MON	ITORING R	EADINGS	0.00 mm			
						HANBY SCREEN	IING			
TIME	PID READ	ING (pp	m)	CG/LE	L (%)	(standard/ppm)	NING			
						1117			+	
BG=Background; [	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncor	ntained)
Professional Graduate Section 2015 (1997)	Militario en la Prima de Calabra (Mario) de	1.00 mm - 1.12 (1.12 (1.18 mm))	J (	CHECK	ANALYSES	S REQUESTED	(Ferenside)			en biografistatists and the
				-				4110110	5465	
			DARF	ROW LA	.B			ANCHO	HAGE	: LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020			TDS		250 ml					
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/04/93</u>			SA	MPLE !	D: LON-S	T02-2S10-1.0					
RADAR STATION: Point Lonely WEATHER: Cloudy, windy, 39°F  SITE/AOC: ST02 Gravel Pad FEET FROM FIXED POINT: MAGNETIC HEADING:											
FIXED POINT: Sampled	at 25' S	S along F	Rd of S	307, 40°	towards la	goon from rd, 103' a	long ro	from the S e	dge of	ST02 Pad.	
SAMPLE MATRIX: 🔳 Se	oil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: <u>PG, JB</u>											
TIME SAMPLED: 16:45											
SAMPLE DESCRIPTION/							ial on t	op of thin laye	er of g	ray-green si	
to clay layer (organic pod				permat	frost at just	over 2 feet.					
SAMPLING METHOD: D							******				
QA/QC SAMPLES COLLE	ECTED										
☐ Trip Blank (TB)	11- / 6 !					e ID			-		
Ambient Condition BI	iank (Al	B) LR	eplica	te of So	Sample II	)					
				WA	TER PARA	METERS					
TIME F	РΗ		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	√ T -	TURBIDITY	
						TEIVII EAVITOTIE	1 0, 2	OII TO GIBTOTI	<u> </u>	OHDIDITT	
			<del> </del>		***************************************		ļ				
						1					
Commence of the Commence of th	The State of the S	n er inskrigerer de	DEFENDACIONE	1400			in or a second		SECTION N	en e	
	4 m			MON	IITORING F	READINGS		1			
TIME	) DE 40	NNO /	>	00//5	=1 (0.1)	HANBY SCREEN	IING				
TIME PIE	J REAL	ING (pp	m)	CG/LE	=L (%)	(standard/ppm)				·	
		HAL									
								:			
BG=Background; BZ=	Breath	ina Zone	· BH=	Boreho	ie: NR=No	Readings: HS-Hea	idenaci	e. S-Sample	(uncor	ntained)	
I Standard Control of	- Marie Carlos	its developed of the state of		radiological (		**************************************	imentalis i	o, o – odmpie	(dilooi	mairica)	
		· · · · · · · · · · · · · · · · · · ·	1	CHECK	ANALYSE	S REQUESTED					
			BAR	ROW LA	λB			ANCHO	RAGE	LAB	
ANALYSES	1		CON	TAINER	18	ANALYOFO		CON	TAINE	DC	
ANALISES	<i>-</i>					ANALYSES		CON	IAINE	no I	
		W	/ATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB						SVOC (8270)		1 liter		8 oz	
PESTICIDES											
				T		TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
						TSS		250 ml			
						TOC		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/04/93</u>			SA	MPLE I	D: LON-S	Γ02-2S11-1.0					
RADAR STATION: P	Point Lonely WEATHER: Cloudy, windy, 39°F										
SITE/AOC: ST02 Gra	avel Pad		FE	ET FRO	OM FIXED F	POINT: <u>65</u>	MA	GNETIC HEAD	ING:	East	
FIXED POINT: 65 fee	et perpendi	cular to r	oad to	ward la	goon.						
SAMPLE MATRIX:	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater (	(GW)		
SAMPLERS: <u>PG,</u> JE											
TIME SAMPLED: 18											
SAMPLE DESCRIPTION	ON/COMM	ENTS: B	rown	to gray	silty clays,	minor organic mate	rial (roc	ots), near satura	ation	to saturated.	
SAMPLING METHOD	): Dedicate	ed scoop						······································			
QA/QC SAMPLES CO				ent Blac	nk (ER)	☐ QA/QC Ex	tra Val	umaa			
☐ Trip Blank (TB)	OLLLOILD					ID					
☐ Ambient Conditio	n Blank (Al										
TIME	PH				TER PARAI	1	1 000	0.510 05 1.45			
TIIVIC	FR		CON	DUCTIV	/11 Y	TEMPERATURE	SPE	CIFIC GRAVIT	1	URBIDITY	
ter to the selections of the selection o		and ROS Line		2860/2874/2666	Constitution (Constitution)	The state of the s		ente est mes son para la constante de la con-	Name of the Control o		
	···· 2/2/ 3			MON	IITORING F	EADINGS		<del></del>			
						HANBY SCREEN	NING				
TIME	PID READ	DING (ppi	m)	CG/LE	EL (%)	(standard/ppm)					
	100000										
BG=Background:	B7-Breath	ing Zone	· BH-	Roreho	io: NP – No	Readings; HS=Hea		a. C. Cammin /			
BG-Background,	DZ-Diedii	ing Zone	, DIT-	Doreno	ie, inn=ino	headings; hs=hea	adspace	e; S=Sample (I	uncor	itained)	
			1	CHECK	ANALYSES	S REQUESTED					
			BARF	ROW LA	λB			ANCHO	RAGE	LAB	
ANALVOTO			CON	TAINED	· · · · · · · · · · · · · · · · · · ·						
ANALYSES				TAINER	.S	ANALYSES	/	CONT	AINE	HS	
		W	/ATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	TEX 8020 ✓					TDS		250 ml			
						TSS		250 ml			
						тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO $_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/26/93</u>			SA	MPLE	D: LON-S	Γ02-SW01				
RADAR STATION: Po	Point Lonely WEATHER: Cool, calm, partly sunny, 45°F									
SITE/AOC: ST02 Gra	vel Pad		FE	ET FRO	OM FIXED I	POINT:	_ MAG	GNETIC HEADII	NG:	SSE
FIXED POINT: South										
SAMPLE MATRIX: ☐ SAMPLERS: JM, RC		□ s	Sedime	nt (SD)		Surface Water (SW)		Groundwater (	GW)	
TIME SAMPLED: 15			DE	DTU O	CAMPLE	/faat):				
SAMPLE DESCRIPTION										water ~ 6 9"
deep, light amber col		<u></u>	<u>02, 0110</u>	OTTOT	sollected in	porided area betwee	iiioau	and pond. Star	lullig	water 0-0
SAMPLING METHOD		ed beake	r							
QA/QC SAMPLES CO				ent Blai	nk (FB)	OA/QC Fx	tra Vol	ımes		
☐ Trip Blank (TB)						e ID				
☐ Ambient Condition	n Blank (Al									
				WA	TER PARA	METERS				
TIME	PH	· · · · · · · · · · · · · · · · · · ·	CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	<u>'</u>   1	URBIDITY
15:30	8.1		500	www.		7°C			<u> </u>	<1.0
		agwaithment eath ne		MON	IITORING F	READINGS		A STATE OF THE STA		
TIME	PID READ	NNG (on	.m)	CC/L	EL (%)	HANBY SCREEN	NING			
THVIC	TID NEAL	My DVIIC	111)	CG/LE	EL (%)	(standard/ppm)			-	
							· · · · · · · · · · · · · · · · · · ·			
BG=Background; E	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	ı e; S=Sample (ι	ıncor	ntained)
the mile and he may be a second of the color and second of the color and	ALL THE EDWARD AND S	Control Colonia con Control	<b>/</b>	CHECK	ANALYSE	S REQUESTED	PROCESS OF STATE	TO A STREET WAS A STREET	0400539945	
			BAR	ROW LA	√B			ANCHO	RAGE	LAB
ANALYSES	1		CON	TAINER	is	ANALYSES	1	CONT	AINE	RS
		٧	VATER	•	SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB	1					SVOC (8270)	1	1 liter		8 oz
PESTICIDES				<del></del>		TOTAL METALS	1	1 liter		8 oz
HVOC 8010	OC 8010 / 1 x 40 ml 4 oz DI						1	1 liter		
VOC-BTEX 8020	VOC-BTEX 8020 ✓						1	250 ml		
						TSS	1	250 ml		
						TOC	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

 $Bullen=BUL; \ Oliktok=OLi; \ Barter=BTR; \ Lonely=LON; \ Barrow=BRW; \ Wainwright=WRT; \ Lay=LAY; \ Lisburne=LISSSA (Applications) and the property of the p$ 

DATE: 08/27/93								
SITE/ADC: ST02 Gravel Pad FEET FROM FIXED POINT: 10 MAGNETIC HEADING: SW FIXED POINT: Sample collected from southwest corner of gravel pad.  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: JM, PG TIME SAMPLED: 09:00 DEPTH OF SAMPLE (feet):  SAMPLED ESCRIPTION/COMMENTS: S03 and SW02 upgradient/upwind sample.  SAMPLING METHOD: Dedicated scoop  QA/QC SAMPLES COLLECTED: Quipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  09:05 200 4°C  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) (standard/ppm)								
FIXED POINT: Sample collected from southwest corner of gravel pad.  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: JM, PG  TIME SAMPLED: 09:00 DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: S03 and SW02 upgradient/upwind sample.  SAMPLING METHOD: Dedicated scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  09:05 200 4°C  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
SAMPLERS: JM, PG  TIME SAMPLED: 09:00 DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: S03 and SW02 upgradient/upwind sample.  SAMPLING METHOD: Dedicated scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID LON-ST02-SW05  Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  09:05 200 4°C  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
TIME SAMPLED: 09:00 DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: S03 and SW02 upgradient/upwind sample.  SAMPLING METHOD: Dedicated scoop  QA/QC SAMPLES COLLECTED:								
SAMPLE DESCRIPTION/COMMENTS: S03 and SW02 upgradient/upwind sample.  SAMPLING METHOD: Dedicated scoop  QA/QC SAMPLES COLLECTED:								
SAMPLING METHOD: Dedicated scoop  QA/QC SAMPLES COLLECTED:								
QA/QC SAMPLES COLLECTED:								
QA/QC SAMPLES COLLECTED:								
□ Trip Blank (TB) □ Duplicate of Water Sample ID LON-ST02-SW05  Ambient Condition Blank (AB) □ Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  09:05 200 4°C  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) (standard/ppm)								
Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  09:05 200 4°C  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
Name								
TIME         PH         CONDUCTIVITY         TEMPERATURE         SPECIFIC GRAVITY         TURBIDITY           09:05         200         4°C         ————————————————————————————————————								
09:05 200 4°C  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)								
TIME PID READING (ppm) CG/LEL (%) (standard/ppm)								
TIME PID READING (ppm) CG/LEL (%) (standard/ppm)								
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)								
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)								
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)								
Bd-Background, B2-Breathing Zone, Bn=Borehole; NH=NO Readings; HS=Headspace; S=Sample (uncontained)								
✓ CHECK ANALYSES REQUESTED								
BARROW LAB ANCHORAGE LAB								
ANALYSES / CONTAINERS ANALYSES / CONTAINERS								
WATER SOIL WATER SOIL								
TPH ✓ 1 liter 8 oz VOC (8260) 3 x 40 ml 4 oz								
PCB SVOC (8270) 1 liter 8 oz								
PESTICIDES TOTAL METALS 1 liter 8 oz								
HVOC 8010  ✓ 1 x 40 ml								
VOC-BTEX 8020 /								
1DS 230 IIII								
TSS 250 ml								
TOC 500 ml 4 oz								
TCLP         2 liters         2 x 8 oz								

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

RADAR STATION: Point Lonely WEATHER: Foggy, cool  SITE/AOC: ST02 Gravel Pad FEET FROM FIXED POINT: 10 MAGNETIC HEADING: West  FIXED POINT: Sample collected from the west side of gravel pad.  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: JM, PG  TIME SAMPLED: 09:20 DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: S04 and SW03 leachate/runoff from Pad.  SAMPLING METHOD: Deconned beaker  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  09:22 8.2 890 5°C  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) (standard/ppm)
FIXED POINT: Sample collected from the west side of gravel pad.  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: JM, PG  TIME SAMPLED: 09:20 DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: S04 and SW03 leachate/runoff from Pad.  SAMPLING METHOD: Deconned beaker  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  09:22 8.2 890 5°C  MONITORING READINGS  MONITORING READINGS
SAMPLE MATRIX:  Soil (S)  Sediment (SD)  Surface Water (SW)  Groundwater (GW)  SAMPLERS:  JM, PG  TIME SAMPLED:  09:20  DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS:  S04 and SW03 leachate/runoff from Pad.  SAMPLING METHOD:  Deconned beaker  QA/QC SAMPLES COLLECTED:  Equipment Blank (EB)  QA/QC Extra Volumes  Trip Blank (TB)  Duplicate of Water Sample ID  WATER PARAMETERS  TIME  PH  CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  09:22  8.2  890  5°C  MONITORING READINGS  MONITORING READINGS
SAMPLERS: JM, PG  TIME SAMPLED: 09:20 DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: S04 and SW03 leachate/runoff from Pad.  SAMPLING METHOD: Deconned beaker  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  09:22 8.2 890 5°C  (pH meter is suspect)  MONITORING READINGS  HANBY SCREENING
TIME SAMPLED:
SAMPLE DESCRIPTION/COMMENTS: S04 and SW03 leachate/runoff from Pad.  SAMPLING METHOD: Deconned beaker  QA/QC SAMPLES COLLECTED:
SAMPLING METHOD: Deconned beaker  QA/QC SAMPLES COLLECTED:
QA/QC SAMPLES COLLECTED:
□ Trip Blank (TB) □ Duplicate of Water Sample ID □ Ambient Condition Blank (AB) □ Replicate of Soil Sample ID □ WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT 09:22 8.2 890 5°C   (pH meter is suspect)
Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  09:22 8.2 890 5°C  (pH meter is suspect) MONITORING READINGS  HANBY SCREENING
WATER PARAMETERS
TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  09:22 8.2 890 5°C  (pH meter is suspect)  MONITORING READINGS  HANBY SCREENING
09:22 8.2 890 5°C  (pH meter is suspect)  MONITORING READINGS  HANBY SCREENING
(pH meter is suspect)  MONITORING READINGS  HANBY SCREENING
MONITORING READINGS  HANBY SCREENING
HANBY SCREENING
HANBY SCREENING
(Standard) phily
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)
✓ CHECK ANALYSES REQUESTED
BARROW LAB ANCHORAGE LAB
CONTAINED
ANALYSES / CONTAINERS ANALYSES / CONTAINERS  WATER SOIL WATER SOIL
TPH  ✓ 1 liter  8 oz  VOC (8260)  3 x 40 ml  4 oz
PCB ✓ SVOC (8270) 1 liter 8 oz
PESTICIDES TOTAL METALS 1 liter 8 oz
HVOC 8010  ✓ 1 x 40 ml
VOC-BTEX 8020 ✓ TDS 250 ml
TSS 250 ml
TOC 500 ml 4 oz
TCLP 2 liters 2 x 8 d

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/27/93</u>			SA	MPLE	ID: LON-ST	Γ02-SW04	DATE: 08/27/93 SAMPLE ID: LON-ST02-SW04										
RADAR STATION: Po																	
SITE/AOC: ST02 Gra							_ MA	GNETIC HEADI	NG: .	NW							
FIXED POINT: Samp																	
SAMPLE MATRIX:  SAMPLERS: JM, PG		□s	edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)								
TIME SAMPLED: 09				DTH O	- CAMDIE	/f= n+\.											
SAMPLE DESCRIPTION							m leac	hate from had									
			<u> </u>	I MIGTO.	aica, offi	+ and 505 farion 10	III IGaG	iale iioiii pau.									
SAMPLING METHOD	Dedicate	d scoop															
QA/QC SAMPLES CC	LLECTED	: 🗆 E	quipm	ent Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes									
		☐ D	uplicat	te of Wa	ater Sample	e ID											
☐ Ambient Condition	n Blank (Al	3) 🗌 R	eplicat	te of So	il Sample II	)											
				WA	TER PARAI	METERS		2 24									
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE SPECIFIC GRAV			/ 1	URBIDITY							
09:50	11.1		240			5°C			-	<1.0							
	T																
							1		_								
	Carlos Carlos (1900 care	Santananani Sp. 200 (ning) Sa	e de la companya de l	Andrew Printers	ers is made	- 1700 Telescont を発酵機能はない。	vijetoje Siste	Company of the Compan		estantia e despresanta							
<u> </u>				MON	IITORING R	EADINGS		Υ	-	T							
TIME PID READING (ppm)			m)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING										
	*				,	(,			+								
									+								
		_															
BG=Background; E	3Z=Breatn	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample (ı	uncor	ntained)							
		<del></del>	1	CHECK	ANALYSES	S REQUESTED											
			BARF	ROW LA	чВ			ANCHO	RAGE	LAB							
ANALYSES	1		CON	TAINER	IS	ANALYSES	1	CONT	AINE	RS							
		w	/ATER		SOIL			WATER		SOIL							
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz							
PCB	/					SVOC (8270)		1 liter		8 oz							
PESTICIDES				· ·		TOTAL METALS		1 liter		8 oz							
HVOC 8010	/	1 x 40	ml		4 oz	DISS METALS		1 liter									
VOC-BTEX 8020	/		<del></del>			TDS		250 ml									
						TSS		250 ml									
				тос		500 ml		4 oz									
						TCLP		· 2 liters		2 x 8 oz							
						!											

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>											
RADAR STATION: P	oint Lonely	w	EATHER	R: Cloudy,	breezy, cold						
SITE/AOC: ST02 Gra						M	AGNETIC HEA	DING	: <u>SW</u>		
FIXED POINT: Samp	le collected	d form southwe	est corne	er of gravel	pad.						
SAMPLE MATRIX: SAMPLERS: JM, PC		☐ Sedime	ent (SD)	20	Surface Water (SW)		Groundwater	(GW)			
TIME SAMPLED: 09		D	PTH O	F SAMPLE	(feet):						
SAMPLE DESCRIPTION											
SAMPLING METHOD	: <u>Dedicate</u>	ed scoop			***************************************						
QA/QC SAMPLES CO	OLLECTED	: 🗌 Equipm	nent Blai	nk (EB)	☐ QA/QC Ex	tra Vol	umes				
☐ Trip Blank (TB)		Duplica	ite of Wa	ater Sample	ID LON-ST02-SW	)2					
☐ Ambient Conditio	n Blank (Al	B) 🗌 Replica	te of So	il Sample II	<u> </u>						
			WA	TER PARA	METERS						
TIME	PH	COV	IDUCTIV	/ITY	TEMPERATURE	SPECIFIC GRAVITY			TURBIDITY		
09:50	8.1	200			4.5°C						
			****								
		management 2 of 1 Hamiltonia and 1		er filog grande og de skolet filosofie skolet en skolet filosofie skolet en skolet filosofie skolet en skolet							
			MON	IITORING F	READINGS						
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREET (standard/ppm)	NING					
BG=Background;	BZ=Breath	ing Zone; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncor	ntained)		
		/	CHECK	ANALYSE	S REQUESTED			er izen eren			
		BAR	ROW LA	λB			ANCHO	RAGE	E LAB		
ANALYSES	1	CON	ITAINER	RS	ANALYSES	1	CON	TAINE	RS		
		WATER	l	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
РСВ	1				SVOC (8270)		1 liter		8 oz		
PESTICIDES			<b></b>		TOTAL METALS		1 liter		8 oz		
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	/				TDS		250 ml				
					TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: 08/27/93			SAN	MPLE II	D: LON-S	Г02-SW06					
RADAR STATION: PO											
SITE/AOC: ST02 Gra	avel Pad		FEE	ET FRO	M FIXED F	POINT: 10	MAG	NETIC HEADII	NG: _I	East	
FIXED POINT: Samp	le collected	d from tun	dra are	ea east	of gravel	oad.					
SAMPLE MATRIX:	] Soil (S)	☐ Se	diment	t (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: JM, PG	3										
TIME SAMPLED: 10	):15		_ DEP	PTH OF	SAMPLE	(feet):					
SAMPLE DESCRIPTION	ON/COMMI	ENTS:									
SAMPLING METHOD	Casan				·					····	
QA/QC SAMPLES CO		. $\Box$ =0	inmo	Plan							
☐ Trip Blank (TB)	JEECTED					QA/QC Ex					
☐ Ambient Condition	n Blank (Al	R) □ Re	plicate	of Soi	ilei Sairipie il Samnie II	e ID					
			phoate								
	T	<del></del>		-	TER PARA	I	T	7.4	Т-		
TIME	PH		COND	UCTIVI	ITY	TEMPERATURE	SPECIFIC GRAVITY			TURBIDITY	
	8.1		200							<1.0	
	1						+				
	A State and A		S. Hile . Vagarine	escal Property	Contract of	and the second of the second o	o de la compania		ORIES AND STREET	a Constant of the Section 1992	
MONITORING READINGS											
T13.45°	DID DEAF				<b>.</b>	HANBY SCREEN	NING				
TIME	PID REAL	DING (ppm	1)	CG/LE	L (%)	(standard/ppm)					
BG=Background; f	BZ=Breath	ing Zone;	BH=B	 Borehol	e: NR=No	Readings; HS=Hea	adspace	e. S=Sample	lunco	ntained)	
	et en en en la matte de la principal de la pri		akali (nga jayan) n	Paulauri, 1996)	1 4 4 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A CONTRACTOR OF THE CONTRACT OF THE PROPERTY.		0, 0 - 0 a.mp.c	pira serie	maniod,	
	1		<b>√</b> Ci	HECK	ANALYSES	S REQUESTED					
			BARRO	IAJ WC	В			ANCHO	RAGI	E LAB	
ANALYSES			CONTA	AINERS	S	ANALYSES	1	CON	TAINE	RS	
		WA	ATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ	1				0 02	SVOC (8270)	-		·		
PESTICIDES								1 liter		8 oz	
HVOC 8010		1 :: 40 ==				TOTAL METALS		1 liter	_	8 oz	
	/	1 x 40 m	וו		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	<b>/</b>					TDS		250 ml			
						TSS		250 ml			
			W12			тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	
						<u> </u>					

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE BEACH DIESEL TANKS (SS03)

DATE: <u>8-24-93</u>		S/	AMPLE	ID: LON-S	S03-S01					
RADAR STATION: P	oint Lonely	W	/EATHE	R: <u>Damp</u>	cold, breezy, rain					
SITE/AOC: SS03	<u> Beach Die</u>	<u>esel Tanks</u> F	EET FRO	OM FIXED I	POINT: 25		MAGNETIC HEAI	DINC	∋: 1 <u>80°</u>	
FIXED POINT: Froi	m the ladde	er of the north t	tank							
SAMPLE MATRIX:		☐ Sedime	∍nt (SD)		Surface Water (SW)		Groundwater (G	϶W)		
SAMPLERS: ML										
TIME SAMPLED: 17										
SAMPLE DESCRIPTI	ON/COMM	ENTS: Light b	rown sa	ınd and gra	vel. No odor or sta	ining.				
SAMPLING METHOD	- Scoon									
QA/QC SAMPLES CO		. □ Fauipr	nont Ria	(ED)		· · · Vol				
☐ Trip Blank (TB)	JLLL				☐ QA/QC EX					
☐ Ambient Conditio	n Blank (A	B) 🗌 Replica	ate of Sc	aiei oaiipi. 11 Sample I	e ID					
				TER PARA						
TIME	PH					7 225		Τ_		
TIIVIC		- 1000	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	1	URBIDITY	
			<del></del>					$oldsymbol{\perp}$		
								$\top$		
MONITORING READINGS										
			IVIO.	III UNING I	T		T	Τ-		
TIME	DING (ppm)	CG/LE	EL (%)	HANBY SCREET (standard/ppm)	VING					
		VIII /		(/-/	(otation o, pp,			$\vdash$		
								┼		
			L							
BG=Background;	BZ=Breath	iing Zone; BH=	=Boreho	ile; NR=No	Readings; HS=Hea	adspace	e; S=Sample (ur	ncon	itained)	
		/	CHECK	(ANALYSE!	S REQUESTED	Control of the Contro				
			ROW LA				ANCHOR	— ∆GE	IΔR	
ANALYSES	1		TAINER		1					
ANALIGEO				]	ANALYSES	1	CONTA	I		
		WATER		SOIL		ļ	WATER		SOIL	
TPH	1	1 liter	!	8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
PCB			ļ	1	SVOC (8270)	1	1 liter		8 oz	
PESTICIDES			 		TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 mi		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1		!	1	TDS		250 ml			
					TSS		250 ml			
					TOC		500 ml	1	4 oz	
					TCLP		2 liters	-	2 x 8 oz	
					102.		2 11.013		2 X 0 02	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-24-93</u>			_SAMPLE	ID: LON-S	S03-S02				
RADAR STATION: P									
SITE/AOC: SS03				OM FIXED	POINT: 25	N	MAGNETIC HE	ADING	3: <u>180°</u>
FIXED POINT: From	m the ladde	er of the nor	rth tank						
SAMPLE MATRIX: SAMPLERS: ML		☐ Sed	liment (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 17			DEPTH C	E SAMPLE	(feet): 2.0 to 2.5				
SAMPLE DESCRIPTION						odor a	and black stain	ina C	Collected wit
SS03-S01 (surface)	- , , , , , , , , , , , , , , , , ,		ao ana gra	1010, 1110101.	vory mgn petroleun	0001 0	and black stain	ing. O	Ollected With
SAMPLING METHOD	): Spade a	nd scoop							
QA/QC SAMPLES CO	OLLECTED	: 🗌 Equ	uipment Bla	nk (EB)	□ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)					e ID				
☐ Ambient Conditio	n Blank (Al								
				TER PARA					
TIME	PH		CONDUCTIV	/ITV	TEMPEDATURE	SPECIFIC GRAVITY		<b>√</b> [ 7	TUDDIDITY.
THVIL			ONDOCTI	VIII	TEMPERATURE	SPE	CIFIC GRAVII	<u> </u>	TURBIDITY
						<u> </u>	**************************************		
The second secon		COMMUNICATION CONTRACTOR	ewit size ses decidence	The second second	The state of the s	ASSOCIATION CONTRACTOR	**************************************		
		-	10M	NITORING F	READINGS				
TIME	PID READ	DING (ppm)	CG/LI	EL (%)	HANBY SCREET (standard/ppm)	NING			
BG=Background;	BZ=Breath	ing Zone; E	BH=Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample	 (uncor	ntained)
and the second and th	Consideration and the second		✓ CHECK	( ANALYSE	S REQUESTED	and the second	TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE		
		В	ARROW L				ANCHO	RAGE	LAB
ANALYSES	/	C	CONTAINER	RS	ANALYSES	1	CONTAINE		RS
		WA	TER	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB					SVOC (8270)		1 liter		8 oz
PESTICIDES			<del></del>		TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					TOC		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz
Angel and the state of the stat		<u> </u>							

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: 8-24-93SAMPLE ID: LON-SS03-S03										
RADAR STATION: P	oint Lonely		WEAT	HER: <u>B</u>	reezy,	damp, cold, 32°F				
SITE/AOC: <u>SS03 B</u> FIXED POINT: <u>Fro</u>	each Diese m the pipe	l Tanks	FEET	FROM FIX	XED F	POINT: 120	i	MAGNETIC HEA	ADIN	G: <u>90°</u>
								0 - 1 - 1		
SAMPLE MATRIX:  SAMPLERS: ML						Surface Water (SW)		Groundwater (	GW)	
TIME SAMPLED: 17			DEPTH	OF SAM	/PLF	(feet): 0 to 0.5				
SAMPLE DESCRIPTI							•			
SAMPLING METHOD										
QA/QC SAMPLES C										
☐ Trip Blank (TB) ☐ Ambient Condition	n Rlank (Δ	DI LI	uplicate of	Water Sa	ample	ID				
- Ambient Gorianie	III DIGIN (A	о) <u> </u>		WATER P						
TIME	PH		CONDUC		ADAIN		1		Т.	
THVIE	FN		CONDUC	IIVIIY		TEMPERATURE	SPE	CIFIC GRAVITY	1	TURBIDITY
MONITORING READINGS										
						HANBY SCREEN	VING		Т	
TIME	PID REAL	DING (ppn	n) CG	6/LEL (%)		(standard/ppm)				
BG=Background;	BZ=Breath	ing Zone;	BH=Bore	ehole; NR	l=No	Readings; HS=Hea	adspace	e: S=Sample (u	ncor	ntained)
		in and the second	Dr. 186 au baie 1883	Contract of the	832-c	REQUESTED	Maria e secolo			
			BARROW	***************************************		TIEGOLOTED		ANOUG		- 1 4 5
								ANCHOP	IAGE	: LAB
ANALYSES			CONTAIN	IERS		ANALYSES	1	CONT	AINE	RS
		W/	ATER	SC	DIL			WATER		SOIL
TPH	1	1 liter		8 oz	:	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 n	nl	4 oz	:	DISS METALS		1 liter		
VOC-BTEX 8020	1				Ī	TDS		250 ml		
					TSS		250 ml			
				TOC		500 ml		4 oz		
						TCLP		2 liters		2 x 8 oz
	2.002									

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SITE/AOC: SS03 Bea				ER: Freezii	ng rain, cold 30°F							
	ach Diese	ADAR STATION: Point Lonely WEATHER: Freezing rain, cold, 30°F  ITE/AOC: SS03 Beach Diesel Tanks FEET FROM FIXED POINT: 75 MAGNETIC HEADING: 45°										
FIXED POINT: The	KED POINT:The south mid-point of the south tank.											
TIXED TOINTTITO	south mid	-point of th	ne south ta	nk.								
SAMPLE MATRIX:		☐ Se	ediment (SD	)) 🗆	Surface Water (SW)		Groundwater	(GW)				
SAMPLERS: <u>JB, N</u> TIME SAMPLED: 16:		,,,	DEDTU	OF CAMPLE	(feet): 0 to 0.75		THE C					
SAMPLE DESCRIPTIO						atad up	dor property f		agen Mainl			
silts and clays. Tundr			ideiside tui	iula mai. 10	p of silt layer. Decar	itea un	uei pressure i	OIII St	coop. Maini			
SAMPLING METHOD:												
QA/QC SAMPLES CO			uinment R	ank (ER)	☐ QA/QC Ex	tra Val	umaa					
☐ Trip Blank (TB)	LLLOILD			Nater Sampl		lia Voi	umes					
☐ Ambient Condition	Blank (Al			•								
	. 2 (1.		- Pilouto Gi C	- Campie 1	<u> </u>							
	<b></b>		W	ATER PARA	METERS							
TIME	PH		CONDUCT	TIVITY	TEMPERATURE	SPE	PECIFIC GRAVITY		TURBIDITY			
						-		$\dashv$				
	<u> </u>											
	Contract Contractor	College of the Labour Department Constant	Manual Park Company of the State of the Stat									
			MC	NITORING F	READINGS	Mana San Managan Managan						
TIME	PID READ	DING (ppm	n)   CG/	LEL (%)	HANBY SCREEN (standard/ppm)	NING						
						,		_	· · · · · · · · · · · · · · · · · · ·			
BG=Background; B	Z=Breath	ing Zone;	BH=Boreh	nole; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(unco	ntained)			
	n and a state of the state of t	and the second s	✓ CHEC	K ANALYSE	S REQUESTED	10 10 10 10 10 10 10 10 10 10 10 10 10 1						
			BARROW I	_AB			ANCHO	RAGE	LAB			
ANALYSES	1		CONTAINE	RS	ANALYSES	1	CON	TAINE	RS			
		WA	ATER	SOIL			WATER		SOIL			
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 mi		4 oz			
PCB					SVOC (8270)		1 liter		8 oz			
PESTICIDES					TOTAL METALS		1 liter		8 oz			
HVOC 8010		1 x 40 m	nl	4 oz	DISS METALS		1 liter					
VOC-BTEX 8020	1				TDS		250 ml					
-					TSS		250 ml					
	_		1744		тос		500 ml		4 oz			
					TCLP		2 liters		2 x 8 oz			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

 $Bullen=BUL; \ Oliktok=OLI; \ Barter=BTR; \ Lonely=LON; \ Barrow=BRW; \ Wainwright=WRT; \ Lay=LAY; \ Lisburne=LISSSA (Application of the property of the prop$ 

DATE: <u>8-24-93</u>			SA	MPLE	ID: LON-S	S03-\$05				
RADAR STATION: <u>P</u>	oint Lonely		WE	EATHER	R: Freezi	ng rain, cold, 30°F				
SITE/AOC: SS03 Be	ach Diesel	Tanks	FE	ET FRO	OM FIXED I	POINT: <u>75</u>	N	MAGNETIC HEA	DING	3: <u>45°</u>
FIXED POINT: The										
SAMPLE MATRIX:	. ,	□ s	edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>JB,</u>										
TIME SAMPLED: 16						(feet): 0 to 0.75				·····
SAMPLE DESCRIPTION SIITS and clays. Tund	JN/COMM	ENIS: <u>U</u>	ndersi	de tuna	ra mat. To	p of silt layer. Decar	nted un	der pressure fro	om sc	oop. Mainly
SAMPLING METHOD		J III HOIG.								
QA/QC SAMPLES CO		:	auipm	ent Blai	nk (FB)	☐ QA/QC E>	tra Vol	umes		
☐ Trip Blank (TB)					ater Sample			annoo		
☐ Ambient Conditio	n Blank (A									
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	/   1	URBIDITY
			1,1							
									-	
							-		_	
	Salas Sa	Alaman Mary Haras	Silving Cons	A Same Comment	enta del tota sul 100				Terres (10.00)	
		100		MON	IITORING F	READINGS				
						HANBY SCREET	VING		$\top$	
TIME	PID REAL	DING (ppr	n)	CG/LE	EL (%)	(standard/ppm)				
BG=Background; I	BZ=Breath	ina Zone:	: BH=	Boreho	le: NR=No	Readings; HS=Hea	adsnaci	e: S-Sample (i	incor	ntained)
	ggan an an Allen	Section 1 Sec.	dajurijas ir ras	L I GEOGRAPIA	Commence of the Commence of th	The second of th	wa opao	o, o – odmpio (d	311001	itamea)
	<del></del>	Γ		CHECK	ANALYSE	S REQUESTED				
			BARR	ROW LA	\B			ANCHO	RAGE	LAB
ANALYSES	1		CON	TAINER	IS .	ANALYSES	1	CONT	AINE	RS
		W.	ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES			_			TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 r	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
			·			тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
									-	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce ail samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>		SA	AMPLE (	D: <u>LON-SS</u>	S03-2S06				
RADAR STATION: <u>P</u>	oint Lonely	W	EATHER	R: <u>40°F, v</u>	windy, 20 mph				- · · · · · · · · · · · · · · · · · · ·
SITE/AOC: SS03 Be								ADING	G: <u>180°</u>
FIXED POINT: Sou	th westerly	from ladder of	north ta	ank (just no	rth of multiflanged p	iping).			
SAMPLE MATRIX:   SAMPLERS: JB	Soil (S)	☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 16	s·00	וח	EPTH O	FSAMPLE	(feet): 0.1 to 0.3				
SAMPLE DESCRIPTI						70 perc	ent mixed sar	nd. hia	h content of
diesel. Sample chec								,9	n contont of
SAMPLING METHOD									
QA/QC SAMPLES C									
☐ Trip Blank (TB)		• •		. ,	e ID				
☐ Ambient Conditio	n Blank (Al	B) 🖪 Replica	te of Sc	il Sample II	D LON-SS03-2S07				
	**		WA	TER PARAI	METERS		<del></del>		
TIME	PH	CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY T		URBIDITY
1996 Salvanes Communication (Communication Communication C	Soor All Matthews was no	The second secon	MON	IITORING F	READINGS			(2111 <b>00)</b>	
					HANBY SCREEN	IING			
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	(standard/ppm)				
			<u> </u>						
BG=Background;	BZ=Breath	ing Zone; BH=	=Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncor	ntained)
		J	CHECK	ANALYSE	S REQUESTED		,,		
		BAR	ROW LA	<b>ΛB</b>			ANCHO	RAGE	LAB
ANALYSES	1	CON	ITAINEF	RS	ANALYSES	1	CONTAINE		RS
		WATER	}	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	/				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>			S/	AMPLE 1	ID: LON-S	S03-2S <u>07</u>				
RADAR STATION: P	oint Lonely	<u></u>	_ W	'EATHER	R: <u>40°F,</u>	windy to 25 mph, cl	ou <u>dy, r</u>	ainy		
SITE/AOC: SS03 Be	each Diese	l Tanks	FE	EET FRO	OM FIXED	POINT: 25	N	MAGNETIC HE	ADING	G: 180°
FIXED POINT: Sou	uth westerly	from lad	lder of	f north ta	ank, just no	orth of multiflanged p	oiping.			
SAMPLE MATRIX:									(GW)	
SAMPLERS: JB								-		
TIME SAMPLED: 16	3:00		DE	EPTH O	F SAMPLE	(feet): <u>.1 to .3</u>				
SAMPLE DESCRIPTION OF THE PROPERTY OF THE PROP	ON/COMMI	ENTS: 31	) perce	ent pea c	gravel, 70 p	percent mixed sand, h	nigh coi	ntent of diesel.	Replic	cate of SS03
2S06. Sample well he SAMPLING METHOD	). Disposa	d in pan.	Check n	con lab	as lab pre	viously reported ND.	Coloc	ated with samp	le LO	N-SS03-S02
QA/QC SAMPLES CO				cont Rla			Vol			
☐ Trip Blank (TB)	JELLO,					le ID				
☐ Ambient Conditio	n Blank (A	.B) 🔳 P	apiica. Replica	ite of Sc	aler Sample vil Sample	е ID				
			———		TER PARA					
TIME	PH		CON	IDUCTIV			T			
1 IIVIL.	Fil		COIN	DUCTIV	// I Y	TEMPERATURE	SPE	CIFIC GRAVIT	<u> </u>	TURBIDITY
					·					
									_	
	esanto, vegi cui ilses a			MON	ITORING!	READINGS	professor 1999			
<u> </u>				IVIOIT	HOrmya,	···		İ		
TIME PID READING (ppm)			m)	CG/LE	=1 (%)	HANBY SCREEN (standard/ppm)	VING			ļ
			<del>'''</del>	<del></del>	-L (/V)	(Startaara, pprin)			+-	
				<del></del>					+	
<u> </u>				L					$\perp$	
BG=Background; I	BZ=Breath	ing Zone	; BH=	:Boreho	le; NR=Nc	Readings; HS=Hea	adspac	e; S=Sample (	uncor	ntained)
					r jaren en arageere (j. j	S REQUESTED	de de grande	Mariner at the second of the		
			BARF	ROW LA	√B			ANCHO	RAGE	- I AB
ANALYSES			CON	ITAINER	C C	ANALYSES	,			
/ " " " " " " " " " " " " " " " " " " "		<u></u>				ANALYSES	1	CONT	Allve	T .
<u></u>	<del></del> _		/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES		<u> </u>				TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 i	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	J					TDS		250 ml		
						TSS		250 ml	700.	
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
	TCLP 2 liters 2 x 8 oz									

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-24-93</u>	TE: 8-24-93 SAMPLE ID: LON-SS03-SD01  DAR STATION: Point Lonely WEATHER: Windy, damp, cold, 30°F									
RADAR STATION: P	oint Lonely		WEATHER	R: <u>Windy,</u>	damp, cold, 30°F					
SITE/AOC: SS03 Be	each Diesel	Tanks	_ FEET FRO	OM FIXED F	POINT: <u>60</u>	\	MAGNETIC HEA	DINC	6: <u>345°</u>	
FIXED POINT: From	n the ladde	er of the no	orth tank.							
SAMPLE MATRIX:		Sec	diment (SD)		Surface Water (SW)		Groundwater (	GW)		
SAMPLERS: ML,			DEDTILO	F OAMBLE	((1)-0.5					
TIME SAMPLED: 17					(feet): 0 to 0.5					
SAMPLE DESCRIPTION	ON/COMM	ENTS: Gra	avei berm w	ith oily snee	en.					
SAMPLING METHOD	: Dedicate	d scoop								
QA/QC SAMPLES CO	OLLECTED	: 🗆 Equ	uipment Blai	nk (EB)	☐ QA/QC Ex	tra Voli	umes			
☐ Trip Blank (TB)		•	-	` '	e ID					
☐ Ambient Condition	n Blank (Al	B) 🗌 Ren	plicate of Sc	il Sample II	)					
				TER PARAM						
TIME	PH	PH CONDUCTIVI			TEMPERATURE	SPE	CIFIC GRAVITY		URBIDITY	
MONITORING READINGS										
TIME	PID READ	PID READING (ppm) CG/LEL (%) (standard/ppm)								
						, -				
								+		
BG=Background;	BZ=Breath	ing Zone; I	BH=Boreho	le; NR=No	Readings; HS=Hea	dspace	: e; S=Sample (ι	incor	ntained)	
ু প্ৰস্তিত্ব কৰি কৰি কৰি কৰি কৰি কৰি কৰি কৰি কৰি কৰি		erek i Mily Szirenieri, akonsil	✓ CHECK	ANALYSES	S REQUESTED		3.70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1860, 45949	· · · · · · · · · · · · · · · · · · ·	
		E	BARROW LA	<b>\</b> Β			ANCHO	RAGE	LAB	
ANALYSES	1	(	CONTAINER	RS	ANALYSES	/	CONT	AINE	RS	
		WA	TER	SOIL			WATER		SOIL	
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ					SVOC (8270)		1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 m	nl	4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1				TDS		250 ml			
					TSS		250 ml			
			***************************************		тос		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-24-93</u>			SA	MPLE I	D: LON-S	303-SD02						
RADAR STATION: P	oint Lonely		WE	EATHER	R: Breezy	, cold, 30°F						
SITE/AOC: SS03 Be	ach Diesel	Tanks	FE	ET FRO	OM FIXED I	POINT: <u>50</u>	٨	MAGNETIC HE	ADINO	3: <u>135°</u>		
FIXED POINT: Froi	m the south	n mid-poi	nt of th	ne south	n tank.							
SAMPLE MATRIX: [						Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: JB,	JM											
TIME SAMPLED: 17												
SAMPLE DESCRIPTION			ollecte	d with S	S03-SW02	Collected at downs	side of I	perm at southe	ern side	of tank pac		
at confluence of drain												
SAMPLING METHOD				. 5:	. (25)							
QA/QC SAMPLES CO ☐ Trip Blank (TB)	OLLEGIED											
☐ Ambient Conditio	n Blank (Δi	B) [] E	oplicat Seplicat	e of So	aler Sample Jil Sample II	e ID						
7 Ambient Condition	אוואומוווו (או		Teplicat			· · · · · · · · · · · · · · · · · · ·						
	1	<del></del>		WA	TER PARA	METERS	T	···	<del></del>			
TIME	PH		CONI	DUCTIV	TIVITY TEMPERATURE			CIFIC GRAVIT	Υ   Τ	URBIDITY		
		7										
	Terroria (18 <b>08-1984)</b> Associated	SELLEMENT ENG	-decision of the design	n stokkila in 18	Pagus Sub-Sifes Sub-Line		BERNANNEN	and the second and the second	nethijaani usto	22.24.24.24.25.24.24.24.24.24.24.24.24.24.24.24.24.24.		
				MON	IITORING F	EADINGS						
						HANBY SCREEN	NING					
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)						
BG=Background	BZ=Breath	ina Zone	· BH-	Boreho	le: NB-No	Readings; HS=Hea	denac	a: S-Sample	(upper	atainad)		
	eli derden kalan kerkela (1. e. 1915-12.		SE SECTION SE	- Sett Report	dan katalah dari d	te di nasi ili ni salah di mengantah kerajah kerajah kerajah kerajah kerajah kerajah kerajah kerajah kerajah k	dspace	s, 0=0ample	(uncor	itairieu)		
	Τ	<u> </u>	<b>V</b> (	CHECK	ANALYSE	S REQUESTED						
			BARF	ROW LA	AB		:	ANCHORAGE		LAB		
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS		
		٧	/ATER		SOIL			WATER		SOIL		
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz		
РСВ						SVOC (8270)		1 liter		8 oz		
PESTICIDES						TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				, , , , , , ,	TDS		250 ml				
				<u>.                                    </u>	7.	TSS						
						-		250 ml				
						TOC		500 ml		4 oz		
			-			TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-24-93</u>		SA	AMPLE	D: LON-S	SS03-SW01					
RADAR STATION: P										
SITE/AOC: SS03 B	each Diese	l Tanks	FE	EET FRO	OM FIXED	POINT: <u>60</u>		MAGNETIC HE	EADIN	G: <u>345</u> °
FIXED POINT: From	m the ladd	er of the r	north t	ank.						
SAMPLE MATRIX:	☐ Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML,	, JM									
TIME SAMPLED: 16	6:45		DE	EPTH O	F SAMPLE	(feet):				
SAMPLE DESCRIPTI	ON/COMM	IENTS: <u>B</u>	Brownis	sh tint a	nd a lot o	f suspended solids.	Collect	ted with LON-S	SS03-8	SD01.
CAMPLING METHOD	) D!' 1							W		
SAMPLING METHOD				. 51	. (55)					
QA/QC SAMPLES Co ☐ Trip Blank (TB)	OLLEGIEL									
	n Blank (A		uplica	te of Co	ater Samp	le ID				
Ambient Conditio	III DIAITK (A	(a)	replica	te or so	oii Sample					
		·		WA	TER PARA	AMETERS				
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ -	TURBIDITY
17:00	7.6		>1,9	90		5°C				
				***						
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	le 1996). Village account to	Source of the contraction of the Con-	Selection and a	CONTRACTOR OF	al and service				e i seconos	Version of the second
				MON	ITORING	READINGS	•	<b></b>		
TIME	TIME PID READING (ppm				-1 (0()	HANBY SCREE	NING			
THVIC	FID REAL	JING (ppi	(TT)	CG/LE	L (%)	(standard/ppm)				
		77.00					<del> </del>			
BG=Background;	BZ=Breath	ning Zone	; BH=	Boreho		o Readings; HS=Hea			(unco	ntained)
and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	entrante de la company	<b>,</b>	CHECK		S REQUESTED	Market April 1990	E MANAGE DE PROCESSO DE	increes en	of the second second
		T		ROW LA	-		<u> </u>	ANCHO		- I AD
						-		ANCHO		
ANALYSES			CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		W	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter		·	8 oz	VOC (8260)	1	3 x 40 mi		4 oz
РСВ						SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1	1				TDS	1	250 ml		***
				1		TSS	1	250 ml		
						TOC	1	500 ml		4 oz
						TCLP	-	•		_
						TOLF		2 liters		2 x 8 oz
				1			-			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-24-93</u>			SA	MPLE	ID: LON-S	S03-SW02					
RADAR STATION: P											
SITE/AOC: SS03 Be	each Diese	l Tanks	FE	ET FR	OM FIXED	POINT: 50	N	MAGNETIC HE	ADING	G: 135°	
FIXED POINT: The	south mid	point of t	he sou	ıth tank.							
SAMPLE MATRIX:	☐ Soil (S)	□ s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: JB,							<u>-</u>		·		
TIME SAMPLED: 17	7:00		DE								
SAMPLE DESCRIPTION	ON/COMM	ENTS: <u>C</u>	Collecte	d with	SS03-SD02	. Collected on down	nside o	f berm at outle	t to dr	ainage ditch	
Very high pH											
SAMPLING METHOD											
QA/QC SAMPLES CO	OLLECTED										
☐ Trip Blank (TB)	D) I. /A	U	uplicat	te of W	ater Sample	e ID					
Ambient Conditio	n Blank (Al	B) 🗆 F	leplicat	te of Sc	oil Sample I	D					
	1			WA	TER PARA	METERS	<del> </del>				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ   7	TURBIDITY	
17:15	11.2		>1,99	90		3°C					
	T										
MONITORING READINGS											
T13.45	DID DEAL	5110 /		200		HANBY SCREEN	NING				
TIME	PID READ	JING (pp	m)	CG/LE	EL (%)	(standard/ppm)			-		
				· · · · · · · · · · · · · · · · · · ·							
BG=Background;	BZ=Breath	ina Zone	: BH=	Boreho	le: NR=No	Readings; HS=Hea	edenaci	e: S-Sample i	uncor 'uncor	rtainad)	
	re show that the tricks		CONTRACTOR OF V	. Consider Section	35 a.s. 314 35 as s	Service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the servic	iuspuo.	c, 0=0ample (	uncoi	Ilaineu _j	
				CHECK	ANALYSE	S REQUESTED					
			BARF	ROW LA	NB			ANCHO	RAGE	LAB	
ANALYSES	1		CON	TAINER	IS	ANALYSES	1	CON	TAINE	RS	
		W	/ATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
						TSS		250 ml			
						тос		500 ml		4 oz	
						TCLP		· 2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE POL STORAGE (SS04)

DATE: <u>08/24/93</u>			SAM	1PLE ID	: LON-SS	04-S01				
RADAR STATION: Point Lonely WEATHER: Foggy, cool, misty, damp										
SITE/AOC: SS04 POI	L Storage		_ FEE	T FRO	M FIXED P	OINT: <u>10</u>	M	IAGNETIC HEA	ADING	: <u>140°</u>
FIXED POINT: South	west corner	of jet fue	el tank.							
SAMPLE MATRIX: <b>E</b> SAMPLERS: ML, JM		☐ Se	diment	(SD)	□s	Surface Water (SW)		Groundwater (	(GW)	
TIME SAMPLED: 15			DED	TH OF	SAMPLE	(feet): 0-0.5				
SAMPLE DESCRIPTION							ed to si	ibrounded pel	hles	Located 15
feet south of let fuel s			4111 DIOI		modium of	and with 1070 round	<del>50 (0 0</del>	abroanaga poi	30100.	LOGALGA 10
SAMPLING METHOD										
QA/QC SAMPLES CO				nt Blan	k (EB)	☐ QA/QC Ext	ra Volu	ımes		
☐ Trip Blank (TB)						ID				
☐ Ambient Condition	n Blank (AE									
				WAT	ER PARAN	METERS				
TIME	PH		COND	LICTIVI	TV	TEMPERATURE	SPE	CIFIC GRAVIT	v   T	URBIDITY
THYL			COND	COTIVI	11	TEMPERATURE	31.6	OIFIC GNAVII	<del>'   '</del>	ONDIDITI
							<u> </u>		_	
	Co.S. Parallellar Andre Stage Co.	56-1410 <b>8</b> 23-454232	seterár i se	CONTRACTOR OF THE	TO DUI O D			THE RESIDENCE OF STREET	HEARING STREET	* 64 (A. C. A. C.
				MONI	TORING R	EADINGS T		<u> </u>	1	
TIME	PID READ	ID READING (ppm) CG/LE				HANBY SCREEN (standard/ppm)	ling			!
		-								
			<u> </u>						$\top$	
BG=Background;	BZ=Breath	ina Zone:	BH=B	 Borehol	e: NR=No	Readings: HS=Hea	dspace	e: S=Sample (	L 'uncor	ntained)
			Madirel Turk Sala		Trusco i de Astronio	S REQUESTED	-0.610,31,7983		. 19.3889	
					**	REQUESTED		ANOLIC		LAD
			BAHH	OW LA	В			ANCHO	HAGE	LAB
ANALYSES	1		CONT	AINER	S	ANALYSES	1	CON	TAINE	RS
		, w.	ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ						SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS	1	1 liter		8 oz
HVOC 8010		1 x 40 r	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020 🗸						TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

AMPLING METHOD: Spade and scoop  A/QC SAMPLES COLLECTED:   Equipment Blank (EB)   QA/QC Extra Volumes	DATE: <u>08/24/93</u>		SA	AMPLE II	D: <u>LON-SS</u>	804-S02-2				.,				
XED POINT: Southwest corner of let fuel tank														
AMPLE MATRIX: Soil (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)  AMPLERS: ML, JM  ME SAMPLED: 15:18   DEPTH OF SAMPLE (feet): 2.0-2.5  AMPLE DESCRIPTION/COMMENTS: Fine-medium sand and rounded to subrounded gravel. Light brown, moist, no odor or aining present.  AMPLING METHOD: Spade and scoop  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)					M FIXED F	POINT: <u>10</u>	M	IAGNETIC HE	ADING	: <u>140°</u>				
AMPLERS: ML, JM  ME SAMPLED: 15:18	·													
ME SAMPLED: 15:18		, ,	☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)					
AMPLE DESCRIPTION/COMMENTS: Fine-medium sand and rounded to subrounded gravel. Light brown, moist, no odor or aining present.  AMPLING METHOD: Spade and scoop  A/QC SAMPLES COLLECTED:			Di	EPTH OF	SAMPLE	(feet): 2.0-2.5	,							
AMPLING METHOD:   Spade and scoop							gravel	I. Light brown,	moist	, no odor o				
A/QC SAMPLES COLLECTED:	staining present.													
Trip Blank (TB)	SAMPLING METHOD	): Spade ar	nd scoop											
Trip Blank (TB)	QA/QC SAMPLES CO	OLLECTED:	☐ Equipm	nent Blar	nk (EB)	☐ QA/QC Ext	ra Volu	ımes						
TIME	☐ Trip Blank (TB)													
TIME	☐ Ambient Conditio	n Blank (AE	3) 🗌 Replica	ite of So	il Sample il	D								
MONITORING READINGS				WA ⁻	TER PARAI	METERS								
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Control of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of	TIME	PH	CON	IDUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY				
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         LANBY SCREENING (standard/ppm														
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         LANBY SCREENING (standard/ppm		<del></del>			· · · · · · · · · · · · · · · · · · ·									
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         LANBY SCREENING (standard/ppm							<u></u>							
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         LANBY SCREENING (standard/ppm					• SL7: W∩ S 1-2 w/s - 5.2					9				
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)				MON	IITORING F	READINGS								
BARROW LAB   BARROW LAB   ANALYSES   ANAL	TIME													
BARROW LAB   BARROW LAB   ANALYSES   ANAL			<u> </u>				A							
BARROW LAB   BARROW LAB   ANALYSES   ANAL														
BARROW LAB       ANALYSES       ANCHORAGE LAB         ANALYSES       ANCHORAGE LAB         CONTAINERS         WATER       SOIL         TPH       ✓       1 liter       SOIL         TPH       ✓       1 liter       SOIL         PCB       SVOC (8260)       3 x 40 ml       4 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       J x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       J x 40 ml       4 oz       DISS METALS       1 liter          TDS       250 ml          TDS       250 ml          TDS               TDS <th <="" colspan="4" td=""><td>BG=Background;</td><td>BZ=Breath</td><td>ing Zone; BH:</td><td>=Boreho</td><td>le; NR=No</td><td>Readings; HS=Hea</td><td>dspace</td><td>e; S=Sample</td><td>(uncon</td><td>itained)</td></th>	<td>BG=Background;</td> <td>BZ=Breath</td> <td>ing Zone; BH:</td> <td>=Boreho</td> <td>le; NR=No</td> <td>Readings; HS=Hea</td> <td>dspace</td> <td>e; S=Sample</td> <td>(uncon</td> <td>itained)</td>				BG=Background;	BZ=Breath	ing Zone; BH:	=Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncon	itained)
ANALYSES         ✓         CONTAINERS         ✓         SOIL         WATER         SOIL         SOIL         VOC (8260)         3 x 40 ml         4 oz         PESTICIDES         PESTICIDES         1 liter         8 oz         PESTICIDES         TOTAL METALS         1 liter         8 oz         PESTICIDES         PESTICIDES         1 liter         PESTICIDES         PES		on the Branch	<u> </u>	CHECK	ANALYSE	S REQUESTED	SPERMAN IN		ine i store t					
ANALTSES         WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         —         SVOC (8270)         1 liter         8 oz           PESTICIDES         —         TOTAL METALS         1 liter         8 oz           HVOC 8010         —         1 x 40 ml         4 oz         DISS METALS         1 liter         —           VOC-BTEX 8020         ✓         TDS         250 ml         —           TOC         500 ml         4 oz			BAR	ROW LA	∖B			ANCHO	RAGE	LAB				
WATER       SOIL       WATER       SOIL         TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       Intercolor       8 oz       SVOC (8270)       1 liter       8 oz         PESTICIDES       Intercolor       8 oz       TOTAL METALS       1 liter       8 oz         HVOC 8010       Intercolor       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       Intercolor       TDS       250 ml          TOC       500 ml       4 oz	ANALYSES		cot	NTAINER	RS	ANALYSES	1	CON	TAINE	RS				
PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       TOS       250 ml          TSS       250 ml           TOC       500 ml       4 oz			WATE	3	SOIL			WATER		SOIL				
PESTICIDES       Image: Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz				
HVOC 8010       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml          TOC       500 ml       4 oz	РСВ					SVOC (8270)		1 liter		8 oz				
VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml            TOC         500 ml         4 oz	PESTICIDES		_			TOTAL METALS		1 liter		8 oz				
TSS 250 ml TOC 500 ml 4 oz	HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter						
TOC 500 ml 4 oz	VOC-BTEX 8020	1				TDS		250 ml	***********					
						TSS		250 ml						
TCLP         2 liters         2 x 8 oz						тос		500 ml	T	4 oz				
						TCLP		2 liters		2 x 8 oz				

Preservation: HVOC

HVOC and VOC: HCI to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to  $4^{\circ}C$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/04/93</u>			SAMPLE	ID: LON-SS	304-2803-2				
RADAR STATION: P									
SITE/AOC: SS04 PO	L Storage		FEET	FROM FIXE	ED POINT: 30		MAGNETIC	HEAD	DING: SW
FIXED POINT: South	nwest corne	er of JP-4 ab	oveground	d storage ta	nk				
SAMPLE MATRIX:	Soil (S)	☐ Sedir	nent (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML, R									
TIME SAMPLED: 16									
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>Grav</u>	el fill mate	rial, 30 feet	south-southwest fro	m sout	hwest corner of	of JP-4	tank, south
of wooden pallets.									
SAMPLING METHOD								<u> </u>	
QA/QC SAMPLES CO	OLLECTED								
☐ Trip Blank (TB)	on Dinni, /Al	U Dupli	cate of W	ater Sample	e ID				
☐ Ambient Conditio	n Blank (At	B) L Repli	cate of Sc	Sample II	)				
			WA	TER PARA	METERS				
TIME	PH	co	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY
						1			
MONITORING READINGS									
					HANBY SCREEN	IING			
TIME	PID READ	ING (ppm)	CG/LF	EL (%)	(standard/ppm)	NING			
16:10	BZ=0		0	-	NR				
16:12	BH≃0		0		NR				
BG=Background:	BZ=Breath	ina Zone: Bl		le: NR=No	Readings; HS=Hea	denar	L S-Sample (	· ·ncor	rtained)
,		Market respective to the first section of	office the header.	ting the property in	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	ισορασι	s, 3—3ample (	unco	ilairieu)
			✓ CHECK	ANALYSES	S REQUESTED				
		BA	RROW LA	√B			ANCHO	RAGE	LAB
ANALYSES	1	CC	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS
		WATE	======================================	SOIL		_	WATER		SOIL
ТРН	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 mi		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020					TDS		250 ml		
					TSS		250 ml		
Note: This sample	was receiv	ved by lab b	ut not	<del> </del>	TOC		500 mi		4 oz
analyzed.					TCLP				
					TOLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/24/93</u>		S/							THE .			
RADAR STATION: <u>P</u>												
SITE/AOC: SS04 PO				OM FIXED F	POINT: <u>36</u>	MA	MAGNETIC HEADING: 195°					
FIXED POINT: South												
SAMPLE MATRIX: [ SAMPLERS: <u>ML, JN</u>		Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)				
TIME SAMPLED: 15		D	EPTH O	F SAMPLE	(feet): 0-0.5							
SAMPLE DESCRIPTION						ne to m	edium sands a	and gr	avel, heavil			
stained with petroleur												
SAMPLING METHOD	: Dedicate	ed scoop										
QA/QC SAMPLES CO	OLLECTED	: 🗌 Equipn	nent Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes					
☐ Trip Blank (TB)		☐ Duplica	ate of W	ater Sampl	e ID							
☐ Ambient Conditio	n Blank (A	B) 🗌 Replica	ate of Sc	oil Sample I	D							
			WA	TER PARA	METERS							
TIME	PH	CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ	TURBIDITY			
							- A A A A A A A A.					
			30, 10, a.d. 2 m.									
COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN CO	Microsoft States	Tona C. Derlander I an	MON	IITORING F	READINGS		RSR PROCESSOR STATES		<b>HRMS</b>			
	HANBY SCREENING											
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	(standard/ppm)							
						•						
BG=Background;	BZ=Breath				Readings; HS=Hea	adspac	e; S=Sample (	(uncor	ntained)			
	)(				S REQUESTED	Allendal II	A BARBAR MARKALAN CONTRACTOR	1100.220000	(Richard & Merchald Charles (1986)			
		BAR	ROW LA	 \В			ANCHO	RAGE	E LAB			
ANALYSES		CON	TAINEF	RS	ANALYSES	/	CON	TAINE	:BS			
7,17,12,1020		WATER		SOIL	ANALIGEO		WATER		SOIL			
TPH	1	1 liter	T	8 oz	VOC (8260)		3 x 40 ml		4 oz			
РСВ					SVOC (8270)		1 liter		8 oz			
PESTICIDES					TOTAL METALS		1 liter		8 oz			
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter					
VOC-BTEX 8020	1				TDS		250 ml	•				
					TSS		250 ml					
					тос		500 ml		4 oz			
					TCLP		2 liters		2 x 8 oz			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/24/93</u>	E: <u>08/24/93</u>									
RADAR STATION: _F								-		
SITE/AOC: SS04 PC	OL Storage		FEET	FROM FIXED I	POINT: _29		MAGNETIC H	EADIN	NG: 240°	
FIXED POINT: South	hwest corn	er of jet fu	iel tank.							
SAMPLE MATRIX: [	☐ Soil (S)	S S	ediment (	SD)	Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: ML, JI								` ,		
TIME SAMPLED: 1										
SAMPLE DESCRIPTI	ION/COMM	ENTS: F	ine to med	dium sands an	d gravels, dark brov	n to bl	ack.			
SAMPLING METHOD										
QA/QC SAMPLES C	OLLECTED				☐ QA/QC Ex					
☐ Trip Blank (TB)	51	D	uplicate o	f Water Sample	e ID					
Ambient Condition	on Blank (A	B) ∐ R∈	eplicate o	f Soil Sample I	D					
	<del></del>			WATER PARA	METERS					
TIME	PH		CONDUC	CTIVITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ   -	TURBIDITY	
									-	
								+	-	
									······································	
MONITORING READINGS										
					HANBY SCREEN	NING				
TIME	PID READ	DING (ppr	n) CC	G/LEL (%)	(standard/ppm)					
								_		
BG-Background:	B7Brooth	ing Zono	DU Dos	obolo: ND. No.						
DG-Dackground,	DZ-DIGALI	ing zone,	, on=bur	enole; INR=INO	Readings; HS=Hea	adspac	e; S=Sample i	(uncor	ntained)	
			✓ CHE	CK ANALYSES	REQUESTED					
			BARROW	/ LAB			ANCHO	RAGE	LAB	
ANALYSES			CONTAIN	UEDO						
ANALISES			CONTAIN	VENS	ANALYSES	1	CON	TAINE	RS	
		W.	ATER	SOIL			WATER		SOIL	
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ					SVOC (8270)		1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 r	nl	4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1				TDS		250 ml			
					TSS		250 mi	J.A.J.		
					тос		500 ml		4 oz	
					TCLP		: 2 liters		2 x 8 oz	
					1				i	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/04/93</u>			_SAMPLE	ID: <u>LON-SS</u>	S04-2SD03						
RADAR STATION: P	oint Lonely		_WEATHER	R: Cloudy,	windy, 15°F						
SITE/AOC: SS04 PO	L Storage		FEET FRO	OM FIXED F	POINT: 90	M	AGNETIC HEA	DING	: SSW		
FIXED POINT: South	west corne	r of jet fuel	tank at nor	theast edge	e of pond.						
SAMPLE MATRIX:	` '	Sed Sed	iment (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: <u>ML, RT</u> TIME SAMPLED: <u>16</u>			DEDTUO	CAMPIE	/fact): 1						
SAMPLE DESCRIPTION			-	F SAMPLE	` '						
OAM LE BEGORM TH	OTT OOT IN	LIVIO. <u>1011</u>	dia materia	ii, ciay, root	material.						
SAMPLING METHOD	: Deconne	ed shovel ar	nd disposa	ble scoop							
QA/QC SAMPLES CO	OLLECTED						umes				
☐ Trip Blank (TB)		☐ Dup	licate of W	ater Sample	e ID						
Ambient Conditio	n Blank (Al	3) 🗌 Rep	licate of So	oil Sample I	D						
			WA	TER PARA	METERS						
TIME PH CONDUCTIVITY					TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY		
				· · · · · · · · · · · · · · · · · · ·							
MONITORING READINGS											
TIME	ME PID READING (ppm) CG/LEL (%) (standard/ppm)										
		( -		(///	(станевне, ррин)			-			
BG=Background;	BZ=Breath	ing Zone; E	3H=Boreho	ole; NR=No	Readings; HS=Hea	ıdspac	e; S=Sample (	uncor	ntained)		
	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		✓ CHECK	ANALYSE	S REQUESTED		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Secretis		
		В	ARROW L	√B			ANCHO	RAGE	LAB		
ANALYSES	/	C	CONTAINER	RS	ANALYSES	1	CON	TAINE	RS		
		WA	ΓER	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
РСВ					SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020					TDS		250 ml				
					TSS		250 ml				
		NA THE RESERVE OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON O			тос		500 ml		4 oz		
					TCLP		2 liters	·	2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

				SAMPLE ID: LON-SS04-SW01						
RADAR STATION: P							,			
SITE/AOC: SS04 PC	L Storage		F	EET FR	OM FIXED	POINT: 36		MAGNETIC HE	ADIN	IG: <u>195°</u>
FIXED POINT: South										
SAMPLERS: ML, JN						Surface Water (SW)		Groundwater (	GW)	
TIME SAMPLED: 14			DE	PTH O	ESAMDIE	(foot):				
SAMPLE DESCRIPTI						` '		mately 40 feet fr	om i	et fuel tank
						a ar bago or somme	APPI GAI	Tracery to reach	<u> </u>	ot 1001 tarik.
SAMPLING METHOD	): <u>Dedicate</u>	d scoop								
QA/QC SAMPLES C	OLLECTED	: 🗆 E	quipm	ent Blai	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)			Ouplica	te of W	ater Sample	e ID				·
☐ Ambient Condition	n Blank (Al	B) 🗌 F	Replica	te of Sc	oil Sample I	D				
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	1	URBIDITY
14:44	7.2		1,120	)		4°C				
			.,							
									<del> </del>	
	t to the second and the second	<mark>testi</mark> yeşediri destrêdi. Azir	MOM		sustruiter Speciality (* 777)			elektrik (d. 1748-1200) elektrik (d. 1748-1200)	BASSESSESSES	
		MONITORING				READINGS		T	· · · · ·	
TIME	DID DEVL	D READING (ppm)			-1 (0/)	HANBY SCREEN	NING	:		
THVIC	TID NEAL	лич (рр	111)	CG/L	EL (%)	(standard/ppm)	•		+-	
	<del> </del>				*				_	
BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (u	ncor	ntained)
		<del>ed a gaga</del> a aa aa dab	1	✓ CHECK ANALYSES REQUESTED					gg de og.	
			BARF	ROW LA	AB			ANCHOR	RAGE	IΔR
ANIAL VOEG		<u> </u>								
ANALYSES	7		CON	TAINER	15	ANALYSES	1	CONT	AINE	RS
		<u> </u>	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 mi		4 oz
PCB						SVOC (8270)	1	1 liter		8 oz
PESTICIDES				1		TOTAL METALS	1	1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS	1	1 liter		
VOC-BTEX 8020	1					TDS	1	250 ml		
						TSS	1	250 mi		
						тос	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample iD Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE DIESEL SPILLS (SS05)

DATE: <u>8-25-93</u>		SAMPLE	D: LON-SS	05-S01					
RADAR STATION: Po	oint Lonely		WEATHER	R: Misty a	nd frigid				
SITE/AOC: SS05 Die	sel Spill		FEET FRO	OM FIXED P	OINT: <u>35</u>	MA	GNETIC HEAD	DING:	240°
FIXED POINT: The	mid-point c	of the west	side of the	furthest nor	thwest tank.				·
SAMPLE MATRIX: 📕	Soil (S)	☐ Sed	liment (SD)		Surface Water (SW)		Groundwater (	(GW)	
SAMPLERS: PG.	JM								
TIME SAMPLED: 11	:25		DEPTH O	F SAMPLE	(feet): <u>0 - 6"</u>				
SAMPLE DESCRIPTION	ON/COMME	NTS: Fine	to medium	sands and	gravels. Moist, mind	or orga	nic matter. Dra	ainage	stream with
ow flow emptying into		rea.							
SAMPLING METHOD									
QA/QC SAMPLES CC	DLLECTED:		•	` '	☐ QA/QC Ext				
☐ Trip Blank (TB)					ID				
Ambient Condition	n Blank (AB	B) L Rep	licate of So	oil Sample II	)				
		•	WA	TER PARAM	METERS				
TIME	PH		CONDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY
	-								
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	iku mbata mandalisi		MON	NITORING R	EADINGS				
					HANBY SCREEN	IING	***************************************		
TIME	E PID READING (ppm			EL (%)	(standard/ppm)				
	TIME FID READING (PPIII			*****					
					-				
		····					·····		
BG=Background;	BZ=Breathi	ing Zone; l	BH=Boreho	ole; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncon	tained)
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		✓ CHEC	C ANALYSES	S REQUESTED				
		E	BARROW L	———— АВ			ANCHO	RAGE	LAB
			20174115						
ANALYSES	/		CONTAINE	1S	ANALYSES	1	CON	TAINE	HS
		WA	TER	SOIL			WATER		SOIL
TPH	/	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ				:	SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter		8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

MAGNETIC Lonely	DATE: 8-25-93			_ SA	MPLE II	D: <u>LON-SS</u>	305-S02				
IXED POINT: _The midpoint of the west side of the furthest NW Tank.											
AMPLE MATRIX: Soli (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)  AMPLERS: PG, JM  ME SAMPLED: 11:30   DEPTH OF SAMPLE (feet): 0 - 6"  AMPLING METHOD: Auger and scoop  MAGC SAMPLES COLLECTED:   Equipment Blank (EB)   QA/QC Extra Volumes  Trip Blank (TB)   Duplicate of Water Sample ID  Trip Blank (TB)   Duplicate of Water Sample ID  TWATER PARAMETERS  TIME   PH   CONDUCTIVITY   TEMPERATURE   SPECIFIC GRAVITY   TURBIDITY  TIME   PID READING (ppm)   CG/LEL (%)   HANBY SCREENING (standard/ppm)    BG=Background; BZ=Breathing Zone: BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)								MA	AGNETIC HEA	DING:	240°
AMPLERS: PG, JM    ME SAMPLED: 11:30											
AMPLIED DESCRIPTION/COMMENTS: Sands and gravels, minor organics.    AMPLING METHOD:			☐ Se	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
AMPLING METHOD: Auger and scoop  AVQC SAMPLES COLLECTED:	TIME SAMPLED: 11	:30		DE	PTH OF	SAMPLE	(feet): 0 - 6"				
AVAIC SAMPLES COLLECTED:	SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>S</u>	ands a	and grav	vels, minor	organics.		· · · · · · · · · · · · · · · · · · ·		
AVAIC SAMPLES COLLECTED:											
Trip Blank (TB)											
Ambient Condition Blank (AB)		OLLEGIED									
TIME		n Blank (Al									
TIME	Ambient Conditio	TI DIATIK (AL	3) LI 116	Spiloai	e 01 301	- Jampie II					
MONITORING READINGS   MONITORING READINGS   MANUALYSES   MONITORING READINGS   MANUALYSES   MA		<del></del>			WA	TER PARA	METERS	·			
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ANALYSES         SCONTAINERS         ANALYSES         ANALYSES         ANALYSES         ANALYSES         ANALYSES         ANALYSES <t< td=""><td>TIME</td><td>PH</td><td></td><td>CON</td><td>DUCTIV</td><td>ITY</td><td>TEMPERATURE</td><td>SPE</td><td>CIFIC GRAVIT</td><td>Y   T</td><td>URBIDITY</td></t<>	TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ANALYSES         SCONTAINERS         ANALYSES         ANALYSES         ANALYSES         ANALYSES         ANALYSES         ANALYSES <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ANALYSES         SCONTAINERS         ANALYSES         VOC (8260)         3 x 40 ml         4 oz         ANALYSES         VOC (8260)										+	38
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ANALYSES         SCONTAINERS         ANALYSES         ANALYSES         ANALYSES         ANALYSES         ANALYSES         ANALYSES <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>		-						-			
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ANALYSES         SCONTAINERS         ANALYSES         ANALYSES         ANALYSES         ANALYSES         ANALYSES         ANALYSES <t< td=""><td>**************************************</td><td>and the Property and the state</td><td>et i seste i stationalista en el</td><td>is swall conjust</td><td></td><td>and the</td><td></td><td></td><td>Series and the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the 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BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)	TIME	PID READ	DING (ppm) CG/L			:1 (%)		IING			
BARR   BARR   SOIL   SVOC (8260)   1 liter   8 oz   FESTICIDES   SVOC (8270)   1 liter   8 oz   TOXAL METALS   TOXAL METALS   MALYSES   SOIL   SVOC METALS   MALYSES   SOIL   SVOC METALS   MALYSES   SOIL   MATER   SOIL   SVOC METALS   MALYSES   SOIL   SOIL   MATER   MALYSES		ME PID READING (ppm)		··/		(///	(5.00.100.10, pp.11)			_	
BARR   BARR   SOIL   SVOC (8260)   1 liter   8 oz   FESTICIDES   SVOC (8270)   1 liter   8 oz   TOXAL METALS   TOXAL METALS   MALYSES   SOIL   SVOC METALS   MALYSES   SOIL   SVOC METALS   MALYSES   SOIL   MATER   SOIL   SVOC METALS   MALYSES   SOIL   SOIL   MATER   MALYSES						PROGRAM AS					
BARR   BARR   SOIL   SOUCH									1		
BARROW LAB       ANALYSES       ANCHORAGE LAB         ANALYSES       ANCHORAGE LAB         CONTAINERS         WATER       SOIL         TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       SOIL       SVOC (8270)       1 liter       8 oz         PESTICIDES       1 liter       8 oz         TOTAL METALS       1 liter       8 oz         HVOC 8010       ✓       1 liter       8 oz         TDS       250 ml          VOC-BTEX 8020       ✓       TDS       250 ml          TDS       250 ml          TDS       250 ml          TDS       500 ml       4 oz	BG=Background;	BZ=Breath	ing Zone;	; BH=	Borehol	e; NR=No	Readings; HS=Hea	dspac	e; S=Sample	(uncor	ntained)
ANALYSES				<b>.</b> (	CHECK	ANALYSE	S REQUESTED	TO RECEIVE MANAGEMENTS			
ANALYSES				RARE	ROW LA	R			ANCHO	)BAGE	
WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 liter         8 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TOS         250 ml            TOS         250 ml             TOC         500 ml         4 oz											
TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz	ANALYSES	/		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz			W	ATER		SOIL			WATER		SOIL
PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 liter         8 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml          4 oz	TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml          TOC       500 ml       4 oz	РСВ						SVOC (8270)		1 liter		8 oz
VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml            TOC         500 ml         4 oz	PESTICIDES						TOTAL METALS		1 liter		8 oz
TSS 250 ml TOC 500 ml 4 oz	HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
TOC 500 ml 4 oz	VOC-BTEX 8020	1					TDS		250 ml		
							TSS		250 ml		
TCLP         2 liters         2 x 8 oz							тос		500 ml		4 oz
							TCLP		2 liters		2 x 8 oz

Radar Station Codes:

Sample ID Format:

Preservation:

Radar Station - site identifier - matrix + sample number - depth (feet)

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

RADAR STATION: Point Lonely WEATHER: Misty and frigid  STEIAOC: S056 Diesel Spill FEET FROM FIXED POINT: 70 MAGNETIC HEADING: 280°  FIXED POINT: Midpoint of the west side of the furthest southwest tank  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: ML, JM  TIME SAMPLED: 11:35 DEPTH OF SAMPLE (feet): 0 to 0.5  SAMPLED: 11:35 DEPTH OF SAMPLE (feet): 0 to 0.5  SAMPLED: 11:35 DEPTH OF SAMPLE (feet): 0 to 0.5  SAMPLING METHOD: Hand auger  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  BARROW LAB  ANALYSES CONTAINERS  ANALYSES CONTAINERS  CONTAINERS
SITE/AOC: SS05 Diesel Spill FEET FROM FIXED POINT: 70 MAGNETIC HEADING: 280° FIXED POINT: Midpoint of the west side of the furthest southwest tank  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: ML, JM TIME SAMPLED: 11:35 DEPTH OF SAMPLE (feet): 0 to 0.5  SAMPLED ESCRIPTION/COMMENTS: Sands and gravels, moist  SAMPLING METHOD: Hand auger  QA/QC SAMPLES COLLECTED: Quipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES / CONTAINERS
FIXED POINT: Midpoint of the west side of the furthest southwest tank  SAMPLE MATRIX: Soil (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)  SAMPLERS: ML_JM  TIME SAMPLED: 11:35   DEPTH OF SAMPLE (feet): 0 to 0.5  SAMPLED DESCRIPTION/COMMENTS: Sands and gravels, moist  SAMPLING METHOD: Hand auger  QA/QC SAMPLES COLLECTED:   Equipment Blank (EB)   QA/QC Extra Volumes   Trip Blank (TB)   Duplicate of Water Sample ID   Ambient Condition Blank (AB)   Replicate of Soil Sample ID    WATER PARAMETERS  TIME   PH   CONDUCTIVITY   TEMPERATURE   SPECIFIC GRAVITY   TURBIDITY    MONITORING READINGS  TIME   PID READING (ppm)   CG/LEL (%)   HANBY SCREENING (standard/ppm)    BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)    / CHECK ANALYSES REQUESTED   BARROW LAB   ANCHORAGE LAB   ANALYSES   CONTAINERS   ANALYSES   CONTAINERS
SAMPLERS: ML, JM  TIME SAMPLED: 11:35 DEPTH OF SAMPLE (feet): 0 to 0.5  SAMPLING METHOD: Hand auger  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CONTAINERS  ANALYSES CONTAINERS  ANALYSES CONTAINERS  ANALYSES CONTAINERS  ANALYSES CONTAINERS
TIME SAMPLED: 11:35 DEPTH OF SAMPLE (feet): 0 to 0.5  SAMPLED DESCRIPTION/COMMENTS: Sands and gravels, moist  SAMPLING METHOD: Hand auger  QA/QC SAMPLES COLLECTED:
SAMPLE DESCRIPTION/COMMENTS: Sands and gravels, moist  SAMPLING METHOD: Hand auger  QA/QC SAMPLES COLLECTED:
SAMPLING METHOD: Hand auger  QA/QC SAMPLES COLLECTED:
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QA/QC SAMPLES COLLECTED:
□ Trip Blank (TB) □ Duplicate of Water Sample ID □ WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  ✓ CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES ✓ CONTAINERS  ANALYSES ✓ CONTAINERS
WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  ✓ CHECK ANALYSES REQUESTED  BARROW LAB ANALYSES ✓ CONTAINERS  ANALYSES ✓ CONTAINERS  ANALYSES ✓ CONTAINERS
WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
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TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
TIME PID READING (ppm) CG/LEL (%) HANBY SCREENING (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
TIME PID READING (ppm) CG/LEL (%) (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
TIME PID READING (ppm) CG/LEL (%) (standard/ppm)  BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  ANALYSES  CONTAINERS  ANALYSES  CONTAINERS
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BARROW LAB  ANALYSES  CONTAINERS  ANALYSES  ANALYSES  ANALYSES  ANALYSES  ANALYSES  ANALYSES
ANALYSES / CONTAINERS ANALYSES / CONTAINERS
ANALYSES / CONTAINERS ANALYSES / CONTAINERS
WATER SOIL WATER SOIL
TPH  ✓ 1 liter  8 oz
PCB SVOC (8270) 1 liter 8 oz
PESTICIDES TOTAL METALS 1 liter 8 oz
HVOC 9010 1 liter 0.55 DIOC METALO
VOC PTEV 9000
VOC-BTEX 8020 ✓ TDS 250 ml
TSS 250 mi
TOC 500 ml 4 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>				SAMPLE ID: LON-SS05-S04						
RADAR STATION: P	oint Lonely		WE	ATHER	: Misty a	ind frigid				
SITE/AOC: SS05 Die	esel Spill		_ FEE	ET FRC	M FIXED F	POINT: <u>70</u>	\	MAGNETIC HE	ADINO	3: <u>280°</u>
FIXED POINT: Mid	point of the	west side	e of the	e most	far southw	est tank.				
SAMPLE MATRIX:				nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML,		· · · · · · · · · · · · · · · · · · ·								
TIME SAMPLED: 11										
SAMPLE DESCRIPTION	ON/COMMI	=NIS: <u>N</u> C	o odors	s. Sano	ds and grav	els at confluence of	draina	ge ditch. Take	n just	above depth
of water. SAMPLING METHOD	): Hand au	ger								
QA/QC SAMPLES CO			nuipme	ent Blan	ık (FB)	□ OA/OC Ex	tra Voli	ımes		
☐ Trip Blank (TB)			, ,			ID				
☐ Ambient Conditio	n Blank (Al	3) 🗌 Re	plicate	of Soi	il Sample II	)				
			****		TER PARAI					
TIME	PH		CONIC	DUCTIV	ITV	TEMPEDATURE	CDE	CIEIC CRAVIT	√ T,	
I IIVIE	[		CONL	JUCITY	11 Y	TEMPERATURE	SPE	CIFIC GRAVIT	Y 1	URBIDITY
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	i i i i i i i i i i i i i i i i i i i	204.00.00000000000000000000000000000000	SCENERAL DE LA	MON	ITORING R	EADINGS		211 (MAP) 15 (EVALUATE AND EVALUATE EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE EVALUATE AND EVALUATE AND EVALUATE AND EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUATE EVALUA	in market makes	A STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF S
		PID READING (ppm) C				HANBY SCREEN	JING			
TIME	PID READING (ppm)		n)	CG/LE	EL (%)	(standard/ppm)				
	VIE TID HEADING (PPH)									
										,
BG=Background;	BZ=Breath	ing Zone;	BH=E	Borehol	e; NR=No	Readings; HS=Hea	dspace	e; S=Sample	uncor	ntained)
Treat Land Market Confidence State Confidence	kontensu or include	./ (	CHECK	ANALYSES	S REQUESTED	6454 AM	L ( ) Es Monsenas			
			-	OW LA		I NEGOESTED		ANCHO	DACE	
				<del>-</del>						
ANALYSES	/		CONT	AINER	S	ANALYSES	1	CON	TAINE	RS
		W	ATER		SOIL			WATER	<del></del>	SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						TOC		500 ml		4 oz
***************************************			•			TCLP		2 liters		2 x 8 oz

Preservation: HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

MADRI STATION   Point   Lonety	DATE: <u>8-25-93</u>	<del></del>									
IXED POINT: The outfall pipe on the south side.  APAPLE MATRIX: Soli (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)  APAPLE MATRIX: Soli (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)  APAPLE MATRIX: Soli (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)  APAPLE MATRIX: Soli (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)  APAPLE MATRIX: Soli (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)  APAPLE MATRIX: JB_AM  IME SAMPLEN: OLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM  IME SAMPLEN SOLI JB_AM											
SAMPLE MATRIX   Soil (S)	SITE/AOC: SS05 Die	esel Spill	•	FE	ET FRO			MA	AGNETIC HEAD	ING:	255°
MAMPLERS:JB, _JM	FIXED POINT: The	outfall pipe	e on the	south s	side.						
ME SAMPLED: 11:55	SAMPLE MATRIX: 📕	Soil (S)		Sedimer	nt (SD)		Surface Water (SW)		Groundwater (0	GW)	
AMPLE DESCRIPTION/COMMENTS: Fifty percent peaty organic plant matter and grey clavey sit. At end of discharge pipe from berm for easternmost tank.  AMPLING METHOD: Spade and scoop  AMACC SAMPLES COLLECTED:   Equipment Blank (EB)   QA/QC Extra Volumes    Trip Blank (TB)   Duplicate of Water Sample ID	SAMPLERS: <u>JB,</u>	JM							100000000000000000000000000000000000000		
Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   Manual   M											
AMPLING METHOD:   Spade and scoop   Spade				ifty per	cent pe	eaty organic	plant matter and g	rey clay	ey silt. At end o	of dis	charge pipe
Trip Blank (TB)											
Trip Blank (TB)											
Ambient Condition   Blank (AB)   Replicate of Soil Sample   D		OLLECTED									
TIME				Ouplicat	e of Wa	ater Sample	e ID				
TIME	Ambient Conditio	n Blank (A	B)   F	Replicat	e of So	il Sample II	O				
MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING (standard/ppm)   MONITORING READINGS   MANBY SCREENING READIN					WA	TER PARA	METERS				
MONITORING READINGS   MANBY SCREENING (standard/ppm)   MANBY SCR	TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	T	URBIDITY
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         <					···					+	
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         <		-								-	
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ANCHORATE (standard/ppm)         HANCHORATE (standard/ppm)         ANCHORATE (standard/ppm)         ANCHORATE (standard/ppm)         ANCHORATE (standard/ppm) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>$\perp$</td><td></td></t<>										$\perp$	
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         Image: Lab (standard/ppm)         <											
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)         Image: continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous contin	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Selection v	alekse galerinak.		MON	IITORING F	EADINGS	ikani, termiştir		(63 80 80 70	
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)         Image: continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous contin							1	UNIC		T	
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)	TIME	PID READ	ING (ppm) CG/LE			EL (%)		NING			
BARROW LAB   BARROW LAB   ANALYSES REQUESTED   ANCHORAGE LAB				ING (ppm) CG/LE			(			+	
BARROW LAB   BARROW LAB   ANALYSES REQUESTED   ANCHORAGE LAB										┼	- 180.000
BARROW LAB   BARROW LAB   ANALYSES REQUESTED   ANCHORAGE LAB						******					
ANALYSES	BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample (u	ncor	tained)
ANALYSES		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		✓ (	CHECK	ANALYSE	S REQUESTED	er bettigget gestellt ster		adagett, it ja	
ANALYSES									ANCHORAGE		LAD
WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB				****					ANOHON	AGE	LAB
TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       —       —       SVOC (8270)       1 liter       8 oz         PESTICIDES       —       TOTAL METALS       1 liter       8 oz         HVOC 8010       —       1 liter       —         VOC-BTEX 8020       ✓       —       TDS       250 ml       —         TSS       —       TOC       500 ml       4 oz	ANALYSES	1		CON	TAINER	IS .	ANALYSES	1	CONTA	AINE	RS
PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       TDS       250 ml          TOC       500 ml       4 oz			v	VATER		SOIL			WATER		SOIL
PESTICIDES	TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz	PCB						SVOC (8270)		1 liter		8 oz
VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml             TOC         500 ml         4 oz	PESTICIDES						TOTAL METALS		1 liter		8 oz
TSS 250 ml TOC 500 ml 4 oz	HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
TOC 500 ml 4 oz	VOC-BTEX 8020	1					TDS		250 ml		
							TSS		250 ml		
TCLP 2 liters 2 x 8 oz							TOC		500 ml		4 oz
							TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

		SAMPLE ID: LON-SS05-S06-1							
RADAR STATION: P	oint Lonely		VEATHER	t: <u>Misty, v</u>	varm				
SITE/AOC: SS05 Die	sel Spill		FEET FRO	M FIXED P	OINT: <u>23</u>	M	AGNETIC HEA	ADING	: <u>255°</u>
FIXED POINT:The	outfall pipe	on the south	side.						
SAMPLE MATRIX:		☐ Sedin	nent (SD)		Surface Water (SW)		Groundwater (	(GW)	
SAMPLERS: <u>PG,</u> FIME SAMPLED: 14			DEPTH OF	SAMPLE	(feet): 0.5 to 1.0				
SAMPLE DESCRIPTION						d orga	nic material an	ıd orav	clavey silt
Collected with SS05-		_NTO. <u>Al ca</u>	ge or ben	ii fical Stari	aring water. I cat ar	u orgu	mo matemar at	ia gia	olayoy olit.
SAMPLING METHOD		ner							
QA/QC SAMPLES CO			ment Blar	ok (ER)		ra Volu	imes		
☐ Trip Blank (TB)					ID				
☐ Ambient Conditio		•		•					
- Thiston Contains	Totalii (1)	3, 1.0p		TER PARAN					
TIME	PH	CC	NDUCTIV		TEMPERATURE	SPE	CIFIC GRAVIT	y T	URBIDITY
THAC			11000111		TENT ETOTOTIE	+	01110 0111111	<del>`</del>	
								_	
	485 <u>4</u> 0 940 ya 20 820 X	A SANSTAL MENT OF THE PARTY.	AOM	IITODING D			ER S. Million de la Company		adams in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state
			MON	IITORING R	EADINGS			<del></del>	
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	IING			
	PID READING (ppm)								
				*****					
BG=Background;	BZ=Breath	ning Zone; Bl	H=Boreho	ele; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	(uncor	tained)
	To the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se				S REQUESTED	MARINE CHANGE	Carlo established (1984), the Belline Carlo and Carlo and Carlo and Carlo and Carlo and Carlo and Carlo and Car		
		T	RROW LA				ANCHO	RAGE	LAB
ANALYSES			ONTAINEF		ANALYSES	1	CON	TAINE	RS
ANALTSES		WATI		SOIL	ANALIOLO		WATER		SOIL
TPH	/	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter		8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz
						<u></u>			

Preservation:

HVOC and VOC; HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>				SAMPLE ID: LON-SS05-S07						
RADAR STATION: Po	oint Lonely		_ WE	ATHER	: Misty a	nd frigid				
SITE/AOC: SS05 Die	sel Spill		_ FE	ET FRO	M FIXED P	OINT:	MAGN	IETIC HEADIN	G: <u>S</u>	outh
FIXED POINT: At th	e south ou	tfall	· · · · · · · ·							· · · · · · · · · · · · · · · · · · ·
SAMPLE MATRIX:	Soil (S)	□s	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>JB</u>										
TIME SAMPLED: 12						. ,				
SAMPLE DESCRIPTION	ON/COMME	ENTS: _	Thirty p	ercent o	organic pla	nt matter, 30 percer	nt coars	se sand and f	ine gra	avel, and 40
percent gray silt, disc				ipe for	westernmo	st tank.				
SAMPLING METHOD										· ·
QA/QC SAMPLES CO										
☐ Trip Blank (TB)						ID				
☐ Ambient Condition	n Blank (AE	B) LI F	leplicat	e of Soi	I Sample ID	)				
				WA	TER PARAN	METERS				
TIME	PH		CON	DUCTIV	ΙΤΥ	TEMPERATURE	SPECIFIC GRAVIT		ΥΤ	URBIDITY
					·					
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	<del> </del>						ļ			
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	2554 hez ha u 1941 î	27.445 18.46 12	MON	ITORING R	EADINGS	30)yang 18388	· · · · · · · · · · · · · · · · · · ·	Street Leading Street	(Peksant)
	· · · · · · · · · · · · · · · · · · ·						IINIC			
TIME	PID READ	DING (ppm)		CG/LE	L (%)	HANBY SCREEN (standard/ppm)	iinG			
				· · · · · · · · · · · · · · · · · · ·						
										· · · · · · · · · · · · · · · · · · ·
BG=Background; I	BZ=Breathi	ing Zone	e; BH=	Borehol	e; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncor	tained)
	in action to maintain the position		<b>,</b>	CHECK	ANALYSES	REQUESTED			- (* **********************************	
				ROW LA				ANCHO	PAGE	IAR
ANALYSES	1		CON	TAINER	S 	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

			SAMPLE ID: LON-SS05-S08						
RADAR STATION: <u>P</u> o									
SITE/AOC: SS05 Die			ET FRO	M FIXED P	OINT: <u>0</u>	MAGN	ETIC HEADIN	G: <u>So</u>	uth
FIXED POINT: At the									
SAMPLE MATRIX: <b>E</b> SAMPLERS: PG,		☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater (	GW)	
TIME SAMPLED: 14		D	EPTH OF	SAMPLE	(feet): 0-6"				
SAMPLE DESCRIPTION									
SAMPLING METHOD									
QA/QC SAMPLES CO									
☐ Trip Blank (TB)					ID				
☐ Ambient Conditio	n Blank (AE	B) L Heplica	ite of Soi	Sample IL	)				
			WA	TER PARA	METERS				
TIME	PH	CON	IDUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	/   T	URBIDITY
								-	
			- No. of Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Sup		V 100		negarableace,	Annual Principles	New year of Edition of the
			MONIT		EADINGS				
	DID DEAD	NING (ana)	66/15	TL (0/)	HANBY SCREEN	ling			
TIME	PID REAL	ING (ppm)	CG/LE	L (%)	(standard/ppm)			+	
								-	
			<u> </u>					<u> </u>	
BG=Background;	BZ=Breath	ing Zone; BH	=Boreho	ie; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncon	itained)
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	J	CHECK		S REQUESTED		O COLORES ON CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	
			ROW LA				ANCHO	RAGE	LAB
ANALYSES	<i>y</i>	CO	NTAINER	IS	ANALYSES	1		TAINE	
		WATE	R	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter		8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz
	I	<del></del>							

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			_ SAN	MPLE II	D: LON-SS	S05-S10-3				
RADAR STATION: P										
SITE/AOC: SS05 Die					M FIXED F	POINT:	MAG	NETIC HEADIN	G: <u>N</u>	IW
FIXED POINT: <u>Samp</u>	le collected	d from are	ea grid.							
SAMPLE MATRIX:	Soil (S)	☐ Se	edimen	t (SD)		Surface Water (SW)		Groundwater (0	EW)	
SAMPLERS: JB						10 2004 200				
TIME SAMPLED: 16						. /				
SAMPLE DESCRIPTION										
color changed from c SAMPLING METHOD			uii gray	/ at 2',	gray seaim	nents smell strongly	ot ales	el, water table a	t 3′,	diesel odor.
QA/QC SAMPLES CO			auinme	nt Rlan	v (ER)	QA/QC Ex	tra Vali	man		
□ Trip Blank (TB)						e ID				
☐ Ambient Conditio	n Blank (Al									
					TER PARAI					
TIME	PH		COND	UCTIV		TEMPERATURE	SPE	CIFIC GRAVITY	Τ,	URBIDITY
THVIL	111	-		JUCITY	11.1	TEIVIFENATORIL	31 L	CIFIC GRAVIII	+ '	UKBIDITT
							-			
		linkom a Tallatatat		MON	ITORING F	READINGS		important and an experience seed	New Year	N. O. S.
	PID READING (ppm)					HANBY SCREEN	IING		T	
TIME	PID READ	JING (ppr	n)	CG/LE	EL (%)	(standard/ppm)	MII NO			
				****						
		·							$\dagger$	
			-:						<u> </u>	
BG=Backgrouna;	BZ=Breatn	ing Zone;	; BH=t	3oreho!	le; NR=No	Readings; HS=Hea	dspac	e; S=Sample (u	ncor	ıtained)
			<b>√</b> C	HECK	ANALYSE	S REQUESTED				
			BARR	OW LA	В			ANCHOP	RAGE	LAB
ANALYSES	1		CONT	AINER	S	ANALYSES	<b>√</b>	CONT	AINE	RS
		w	/ATER		SOIL			WATER		SOIL
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1	<u></u>				TDS		250 ml		
						TSS		250 ml		
						TOC		500 mi		4 oz
						TCLP		2 liters		2 x 8 oz
				į						

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $4^{\circ}\mathrm{C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

D L. <u>J. L. J. J.</u>	ATE: <u>8-25-93</u>			.E ID: <u>LC</u>	<u> N-SSC</u>	)5-S11-3,5			····	
RADAR STATION: Po	int Lonely		WEATH	HER: M	listy, fri	gid				
SITE/AOC: SS05 Dies	sel Spill		FEET F	ROM FIX	KED PC	DINT:	MAGN	ETIC HEADING	3: <u>No</u>	rth
FIXED POINT: Sample	e collected	from sam	npling grid	d				"		
SAMPLE MATRIX: 📕	Soil (S)	☐ Sec	diment (S	SD)	□s	urface Water (SW)		Groundwater	(GW)	
SAMPLERS: PG,								,		
TIME SAMPLED: 15:			_							
SAMPLE DESCRIPTION		NTS: No	rth cente	r of 3x3 s	ample	point grid. Heavy	petrole	um odor. Dis	colore	d soils from
black to reddish-brown							•			
SAMPLING METHOD:										
QA/QC SAMPLES CO	LLECTED:									
☐ Trip Blank (TB)	Diamir (AE					D				
Ambient Condition	1 Blank (AE	) $\square$ Het	plicate of	Soil Sam	ipie iu					
			١	WATER P	PARAM	ETERS				
TIME	PH		CONDUC	TIVITY		TEMPERATURE SPE		CIFIC GRAVIT	ΥT	URBIDITY
						<u></u>	ļ		$\perp$	<del> </del>
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<u> </u>	#10 · · · · · · · · · · · · · · · · · · ·	IWO			ING RE	EADINGS T				
TIME	PID READING (ppm)		,   , ,	>/! □   (o/ \		HANBY SCREEN	IING			
TIVIE	רוט תבאט	PID READING (ppm)		B/LEL (%)		(standard/ppm)			$\dashv$	
									+	
BG=Background; E	BZ=Breath	ina Zone:	BH=Bore	ehole; NF	R=No I	Readings; HS=Hea	dspace	e; S=Sample (	(uncor	ntained)
	en in andre en en	narilabat patribitish	1874), 768 (288) (2686)	367435135577 <b>99</b>	MEMORINA CONTRACTOR	2 (11 ) (1 ) (1 ) (1 ) (1 ) (1 ) (1 ) (1	- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	er en en en en en en en en en en en en en	100000000000000000000000000000000000000	Fide Control of the C
	1		✓ CHE	CK ANAL	LYSES	REQUESTED				
		E	BARROW	/ LAB				ANCHO	RAGE	LAB
ANALYSES	/		CONTAIN	NERS		ANALYSES	1	CON	TAINE	RS
ANALIGES				1		7(17/12/02/0				<u> </u>
		WA	ATER	SC	OIL			WATER		SOIL
TPH	1	1 liter		8 02	z [	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES					Ì	TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter		8 oz	z	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml	, ,	
						TOC		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>					SAMPLE ID: LON-SS05-S12-3					
RADAR STATION: P										
SITE/AOC: SS05 Die	esel Spill		FE	ET FRO	M FIXED	POINT:	_ MAG	NETIC HEADII	۷G: <u>۱</u>	ΝE
FIXED POINT: Samp	ole collected	d from a	ea grid	<u>d</u>						
SAMPLE MATRIX:			Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: RT,										
TIME SAMPLED: 15										
SAMPLE DESCRIPTION	ON/COMM	ENIS: T	vortnea	ast corne	er of 3x3 s	ample point grid, he	avy pet	roleum/solvent	odor	. Sands and
gravel. SAMPLING METHOD	: Hand au	ger								
QA/QC SAMPLES CO	OLLECTED	: DE	auipm	ent Blar	ık (FB)		tra Vol	umes		
☐ Trip Blank (TB)										
☐ Ambient Conditio	n Blank (Al	B) 🗆 F	Replica	te of So	il Sample I	D				
					TER PARA					
TIME	PH		CON	DUCTIV	TITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ -	TURBIDITY
							<del> </del>	· · · · · · · · · · · · · · · · · · ·	_	
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	a Park Parish and Carlotter St.	nakata kanaka ka		MON	TODING 5		S . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 .		117 NEW 2007	
				MUN	TORING F	READINGS		T		
TIME	PID READ	DING (pp	NG (ppm) CG/l		EL (%)	HANBY SCREET (standard/ppm)	NING			
						(			-	
									+	
BG=Background;	BZ=Breath	ina Zone	======================================	Boreho	e: NR=Nc	Readings; HS=Hea	adsnace	e: S=Sample /	unco	ntained)
	Berling Allerichte		ole of the team	e galandan da	ではた1個製造を対象した。	S REQUESTED		o, o – oumpie v	anoo.	Named)
				ROW LA		3 REQUESTED		ANCHORAGE LAB		- 1 AD
			DANI	10VV LA	D	4		ANCHO	HAGE	: LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		٧	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter	_	8 oz
HVOC 8010		1 liter			8 oz	DISS METALS	:	1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
						· Princel				

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO $_3$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SA	MPLE ID	): <u>LON-S</u> 9	S05-S13-3				
RADAR STATION: <u>Po</u>	N: Point Lonely WEATHER: Misty, frigid									
SITE/AOC: SS05 Die						OINT:	MAGN	ETIC HEADIN	G: <u>W</u>	est
FIXED POINT: Samp	le collected	l within a	rea sa	mpling c	rid.					
SAMPLE MATRIX:		□ s	edime	nt (SD)		Surface Water (SW)		Groundwater (	(GW)	
SAMPLERS: RT,		<del></del>		DTIL OF	SAMPLE	/fact): 0				
TIME SAMPLED: <u>16</u> SAMPLE DESCRIPTION						` ' ———	le noin	tarid Veny hic	h netr	oleum odor
Sands and gravels.	DIA/ OCIVIIVIL	_1413. <u>_vv</u>	eat aic	ie or por	u, iaterar i	napoliti oi oxo samp	е роп	rgita. Very mig	ii peli	oleani odor.
SAMPLING METHOD	: Hand au	aer								
QA/QC SAMPLES CO			auipm	ent Blan	k (EB)	☐ QA/QC Ex	tra Volu	umes		
☐ Trip Blank (TB)						ID				
☐ Ambient Conditio	n Blank (AE									
				WAT	ER PARAI	METERS				
TIME	PH		CON	DUCTIVI	TY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY
Annual Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the				MONI	TORING F	EADINGS			1995 FEBRUARE #1500	
	777					HANBY SCREEN	JING			
TIME	PID READ	ING (pp	m)	CG/LE	L (%)	(standard/ppm)				
BG=Background;	BZ=Breath	ing Zone	; BH=	Borehol	e; NR=No	Readings; HS=Hea	dspac	e; S=Sample (	uncor	ntained)
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			J	CHECK	ANALYSE	S REQUESTED				
			BARF	ROW LA	В			ANCHO	RAGE	LAB
ANALYSES			CON	TAINER	<del></del>	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter			8oz	DISS METALS		1 liter		
VOC-BTEX 8020	VOC-BTEX 8020 ✓					TDS		250 ml		
					,,,,,,	TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: 8-25-93 SAMPLE ID: LON-SS05-S14-3										
RADAR STATION: P	Point Lonely WEATHER: Misty, frigid									
SITE/AOC: SS05 Die	esel Spill		_ FE	ET FRO	M FIXED P	OINT:	МА	GNETIC HEAD	ING:	
FIXED POINT: Samp	ole collected	l within a	area gri	id.						
SAMPLE MATRIX: <b>II</b> SAMPLERS: JB	Soil (S)	□ s	edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)	
TIME SAMPLED: <u>15</u>	5:40			DTH O	CAMPLE	(foot): 3				·
SAMPLE DESCRIPTION						. ,	v arour	id surface, nen	etrate	d gray nylor
material. Diesel stain										
SAMPLING METHOD							i			
QA/QC SAMPLES CO	OLLECTED:		quipm	ent Blar	ik (EB)	☐ QA/QC Ex	tra Volu	ımes		
☐ Trip Blank (TB)						ID				
Ambient Condition	n Blank (AE									
				WA ⁻	ΓER PARA!	METERS				-
TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y T	URBIDITY
					<del></del>		ļ			
		Ylbaboly Hojik ("Ti	**************************************	MON	ITORING P	EADINGS				
						HANBY SCREEN	IING			V - 1.0
TIME	PID READ	ING (pp	m)	CG/LE	L (%)	(standard/ppm)				
			·							
							<del></del>			
BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho	e; NR=No	Readings; HS=Hea	idspac	e; S=Sample (	uncor	itained)
			1	CHECK	ANALYSE	S REQUESTED				
			BAR	ROW LA	В			ANCHO	RAGE	LAB
ANALYSES	1		CON	ITAINER	S	ANALYSES	1	CON	FAINE	RS
		٧	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES				,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	VOC-BTEX 8020 ✓					TDS		250 ml		
						TSS		250 ml		
						тос	L	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to  $4^{\circ}C$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>		SA	MPLE II	D: <u>LON-SS</u>	S05-S15-3					
ADAR STATION: Point Lonely WEATHER: Misty and frigid										
SITE/AOC: SS05 Die	sel Spill	FE	ET FRO	M FIXED F	POINT:	MAGN	ETIC HEADING	i: <u>Eas</u>	st	
FIXED POINT: <u>Samp</u>	le collected	from within sa	ampling	grid.						
SAMPLE MATRIX:	Soil (S)	☐ Sedime	nt (SD)		Surface Water (SW)		Groundwater (	GW)		
SAMPLERS: <u>RT,</u>							<u></u> .			
TIME SAMPLED: 15	5:00	DE	EPTH OF	SAMPLE	(feet): 2.5 to 3.0					
SAMPLE DESCRIPTION	ON/COMME	ENTS: East lat	eral mid	point of 3x	3 sample point grid.					
SAMPLING METHOD										
QA/QC SAMPLES CO	OLLECTED:									
☐ Trip Blank (TB)	5				9 ID			-		
Ambient Conditio	n Blank (At	B) $\square$ Replica	te of Sol	Sample II	)					
			WA ⁻	TER PARAI	METERS					
TIME	PH	CON	IDUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	/ T	URBIDITY	
THE		301				+		<del>-  -                                  </del>		
								$\dashv$		
The transfer of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the C			TERMOND				Principal of the Principal of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Residence of the Reside	Trentis in	SCINES SESSONS OF	
			MON	ITORING F	READINGS		T			
					HANBY SCREEN	IING				
TIME	PID READ	ING (ppm)	CG/LE	EL (%)	(standard/ppm)			-		
RG-Background:	R7—Broath	ing Zone: BH-	-Boreho	ia: NR-No	Readings; HS=Hea	denace	e: S-Sample (	uncor	ntained)	
DG-Dackground,	DZ-Dream	ing zone, bri-	-DOICHO	10, 1411-140	Trodomgo, 170—1700	a copuo			mali se	
		<i>s</i>	CHECK	ANALYSE	S REQUESTED					
		BAR	ROW LA	λB			ANCHO	RAGE	LAB	
		CON	ITAINICD	ıc	41417656		CON		DC	
ANALYSES		COI	NTAINER	is I	ANALYSES	<i></i>		AINE		
		WATER	₹	SOIL			WATER		SOIL	
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ					SVOC (8270)		1 liter		8 oz	
<u> </u>							1			
PESTICIDES			<del></del>		TOTAL METALS	ļ <u>.</u>	1 liter		8 oz	
HVOC 8010		1 liter		8 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1				TDS		250 ml			
			1		TSS		250 ml			
					тос		500 ml		4 oz	
		1			TCLP		2 liters		2 x 8 oz	
					IOLF	-	Zillers		2 1 0 02	
					<u> </u>	<u></u>			<u> </u>	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>	DATE: 8-25-93 SAMPLE ID: LON-SS05-S16-5									
RADAR STATION: P	: Point Lonely WEATHER: Misty, frigid									
SITE/AOC: SS05 Die						OINT:	MAG	NETIC HEADIN	اG: <u>S</u>	W
FIXED POINT: Samp										
SAMPLE MATRIX:	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: JB,										
TIME SAMPLED: 16								<u> </u>		
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>S</u>	outhw	est corr	ner of 3x3 s	ample point grid. G	iravels	and sands, sli	ght oc	lor.
SAMPLING METHOD	Hand au	aer								
QA/QC SAMPLES CO			auipm	ent Blar	nk (FB)	□ QA/QC Ex	tra Voli	umes		
☐ Trip Blank (TB)	JLLL 5					ID				
☐ Ambient Condition	n Blank (Al	3) 🗌 R	leplicat	te of So	il Sample II	)				
					TER PARAM					
TIME	PH	[	CON	DUCTIV		TEMPERATURE	QDE	CIFIC GRAVIT		- IDDIDITY
111912	113		0014	DOCTIV	111	TEIVIFENATURE	3FL	CIFIC GRAVII	++	URBIDITY
			- <del> </del>				<del> </del>	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	
		nsiadares II nasi lagit II	a Anti-American	MON	IITORING R	FADINGS	all and a solution	SECRETARISMENT PROBLEM TO		Carlo and a Carlo Maria Carlo and Carlo and Carlo and Carlo and Carlo and Carlo and Carlo and Carlo and Carlo
				10101	11011111011	1		1		
TIME	PID READ	)ING (pp	m)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING			
		W. W. I	<del>'''</del>		(/-/	(oranga, a, pp ,			-	
									+	
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	idspace	e; S=Sample	(uncor	ntained)
<ul> <li>Complete Services and the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of the complete state of 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second second second second second second second second second second second second second second second second second second secon	1	CHECK	ANALYSE	S REQUESTED	ing page 1 to the animal filter	AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE 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				ROW LA				ANCHO		- 1 AD
						1		ANCHO	HAGE	: LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
			<u></u>			тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
		-				TOLI		Z III.OI J		2 X 0 02
		İ								

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

FEET FROM FIXED POINT:   MAGNETIC HEADING:   South   MAGNETIC HEADING:   MAGNETIC HEADING:   South   MAGNETIC HEADING:   South   MAGNETIC HEADING:   South   MAGNETIC HEADING:   MAGNETIC HEADING:   South   MAGNETIC HEADING:   South   MAGNETIC HEADING:   MAGNETI	DATE: <u>8-25-93</u>		SA	MPLE II	D: <u>LON-SS</u>	05-S17-3					
INCED_POINT: Sample collected from within sampling ord.	RADAR STATION: Point Lonely WEATHER: Misty, frigid										
AMPLE MATRIX:   Soil (S)						OINT:	MAGN	ETIC HEADING	3: <u>So</u>	uth	
MAMPLERS:JB, RT     IME SAMPLED:1525	FIXED POINT: Samp	ole collected	I from within sa	mpling	grid.				<del></del>		
MARPLED: 15:25   DEPTH OF SAMPLE (feet): 3			☐ Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
AMPLE DESCRIPTION/COMMENTS: South lateral midpoint of 3x3 sample point grid.   Sands, gravels, and rocks above ice socks; petroleum odor.				PTH OF	SAMPLE	(feet): 3					
Cocks   petroleum odor							San	ds. gravels, an	d rock	s above ice	
MANNELS COLLECTED:				atora, mi	aponic or o	AO GAMPIO POINT GITE		3) 3,333,3			
Trip Blank (TB)			ger								
Trip Blank (TB)				ent Blar	nk (EB)	☐ QA/QC Ex	ra Volu	ımes		1100	
Ambient Condition Blank (AB)	☐ Trip Blank (TB)										
TIME	☐ Ambient Conditio	n Blank (A	3) 🗌 Replica	te of So	il Sample IE	)					
MONITORING READINGS   MANUALY SES   MONITORING READINGS   MANUALY SES   MONITORING READINGS   MANUALY SES   MONITORING READINGS   MANUALY SES   MONITORING READING   MONITORING   MONITORING READING   MONITORING READING   MONITORING READING   MONITORING READING   MONITORING READING   MONITORING READING READING   MONITORING READING READING READING   MONITORING READING R			<del></del>		,						
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HOR SCREENING (standard/ppm)         HOR SCREENING (standard/ppm)         ANALYSES         SC SAmple (uncontained)           ANALYSES         ✓         CONTAINERS         ✓         ANALYSES         ✓         CONTAINERS         SOIL           TPH         ✓         1 liter         8 oz         SVOC (8260)         3 x 40 ml         4 oz           PESTICIDES         —         TOTAL METALS         1 liter         8 oz           HVOC 8010         —         1 liter         8 oz           HVOC 8010         —         1 liter         1 liter            TDS	TIME	PH	CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY	
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ANALYSES         SCONTAINERS         ANALYSES         Y CONTAINERS         ANALYSES         Y ANALYSES         Y ANALYSES         Y ANALYSES										. ,	
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ANALYSES         SCONTAINERS         ANALYSES         Y CONTAINERS         ANALYSES         Y ANALYSES         Y ANALYSES         Y ANALYSES											
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HOND         HANBY SCREENING (standard/ppm)         HOND         ANALYSES         SSABDE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB <th< td=""><td colspan="11"></td></th<>											
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HOND         HANBY SCREENING (standard/ppm)         HOND         ANALYSES         SSABDE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB         ANACHORAGE LAB <th< td=""><td colspan="11"></td></th<>											
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)         Image: control of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of	Share Marie			MON	ITORING R	EADINGS				Mikelikovál úvi Nacid Bilandkene	
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)         ✓ CHECK ANALYSES REQUESTED         ANALYSES       ANCHORAGE LAB         ANALYSES       ✓ CONTAINERS       ANALYSES       ✓ CONTAINERS         MATER       SOIL         TPH       ✓ 1 liter       8 oz       VOC (8260)       3 x 40 mi       4 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 liter       8 oz       DISS METALS       1 liter							IING				
BARROW LAB	TIME	PID READ	ING (ppm)	CG/LE	:L (%)	(standard/ppm)					
BARROW LAB											
BARROW LAB											
BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR   BARR	BG=Background;	BZ=Breath	ing Zone; BH=	Boreho					(uncor	ntained)	
ANALYSES         ✓         CONTAINERS         ✓         CONTAINERS           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 mi         4 oz           PCB         SVOC (8270)         1 liter         8 oz         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 liter         8 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TOS         250 ml            TOC         500 ml         4 oz	The first of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	il y destruit state (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in America (1944) in	<i>,</i>	CHECK		-				**************************************	
WATER   SOIL   WATER   SOIL			BAR	ROW LA	λB			ANCHO	RAGE	LAB	
WATER   SOIL   WATER   SOIL	***********		CON	ITAINED	C	ANALYOFO		CON	TAINE	DC	
TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz	ANALYSES				<u> </u>	ANALYSES	7				
PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 liter         8 oz         DISS METALS         1 liter            VOC-BTEX 8020         Image: Control of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property o	TDH					VOC (8260)					
PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 liter         8 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml             TOC         500 ml         4 oz			1 IIICI		0 02						
HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz			ļ:								
VOC-BTEX 8020         ✓         TDS         250 mi            TSS         250 ml            TOC         500 ml         4 oz			1 liter		8 oz					<u> </u>	
TOC 500 ml 4 oz		1							L		
						TSS		250 ml			
TCLP 2 liters 2 x 8 oz						тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SAMPLE	ID: LON-S	S05-S18-3				
RADAR STATION: P	oint Lonely WEATHER: Misty, frigid, cold blooded								
SITE/AOC: SS05 Die	esel Spill		FEET FR	OM FIXED I	POINT:	MAG	NETIC HEADIN	G: 5	SE
FIXED POINT: Samp	ole collecte	d from area :	sampling	grid.					
SAMPLE MATRIX:		☐ Sedi	ment (SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>JB</u> ,									
TIME SAMPLED: 14					` /				
SAMPLE DESCRIPTI	ON/COMM	ENTS: South	east corn	er of 3x3 sar	mple point grid. Sand	ds and o	gravels with sligh	nt pet	roleum odor
SAMPLING METHOD	D: Hand au	Jaer							
QA/QC SAMPLES C			nment Bla	nk (FB)	☐ QA/QC Ex	tra Vol	umos		
☐ Trip Blank (TB)		- 1							
☐ Ambient Condition	n Blank (A	B) 🗌 Repli	cate of So	oil Sample I	D				
				ATER PARA					
TIME	PH				T	T		-	
TIME	PH	-   0	ONDUCTI	VIIY	TEMPERATURE	SPE	CIFIC GRAVITY		URBIDITY
				· · · · · · · · · · · · · · · · · · ·					
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		***	MON	VITORING F	READINGS	<del></del>	1		
TD 45	5.5				HANBY SCREEN	NING			
TIME	PID REAL	DING (ppm)	CG/L	EL (%)	(standard/ppm)				
BG=Background;	BZ=Breath	ning Zone: Bl	Boreho	ole: NR=No	Readings; HS=Hea	adsnaci	e: S=Sample (u	ıncor	rtained)
	ing pangkang di merunan and dibibidi sangka	end to the deposit of the Parketing	িত বিশ্বস্থিত হৈছিল।	of Managagagagan and a	Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan				itali loaj
		1	✓ CHECK	( ANALYSE	S REQUESTED	····			
		B <i>F</i>	RROW L	AB			ANCHOF	RAGE	LAB
ANALYSES	1	Co	ONTAINE	RS	ANALYSES	1	CONT	AINE	RS
		WAT	ΞR	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 mt		4 oz
PCB		1			SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter		8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	VOC-BTEX 8020				TDS		250 ml		
					TSS		250 mi		
					TOC		500 mi		4 oz
			11 100		TCLP		2 liters		2 x 8 oz
			*****						
<u> </u>		L	· · · · · · · · · · · · · · · · · · ·		<u> </u>				

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SAMPLE	ID: LON-SS	S05-S19-3				
RADAR STATION: <u>P</u>	oint Lonely		WEATHE	R: <u>Misty a</u>	ind cold				
SITE/AOC: SS05 Die	esel Spill		FEET FRO	OM FIXED F	POINT:	MAGNE	ETIC HEADING	3: <u>We</u> :	st
FIXED POINT: Samp	ole collected	from withi	in sampling	grid.					
SAMPLE MATRIX:		☐ Sed	diment (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: PG			DEDTIL	CAMPIE	(fact): 0				
TIME SAMPLED: <u>16</u> SAMPLE DESCRIPTION				F SAMPLE		lo point	arid Vonubio	nh notr	olaum odor
Sands and gravels.	ON/GOIVIIVIE	ENTS. <u>Wes</u>	st slue of pc	mu, lateral i	ilupoliti oi 3x3 samp	ie poiri	gila. Very filo	iii beiii	oleani odol
SAMPLING METHOD	): Snade a	nd scoon		<del> </del>					
QA/QC SAMPLES C			inment Bla	ink (EB)	□ OA/OC Ex	ra Voli	imes		
☐ Trip Blank (TB)	OLLLOILD.			ater Sample		14 101	211100		
Ambient Condition	n Blank (Al			•	***************************************	,			
				ATER PARA					
TIME	T PH		CONDUCTI		TEMPERATURE	SPE	CIFIC GRAVIT	V T	URBIDITY
1 IIVIL			DONDOON		TEM ENATORIE	O1 L	OII TO GITAVIT	<del>'   '</del>	CHDIDITT
	i ti i i i i i i i i i i i i i i i i i	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	MOI	NITORING F	READINGS		CAST WAS REPORTED TO		Section of Company and
TIME	DID BEAT	DING (ppm)	) CG/I	EL (%)	HANBY SCREEN (standard/ppm)	ling			
TIME	FID NEAL	лис (ррп)	) CG/L	.CL (/8)	(Staridard/ppin)				
BG=Background:	BZ=Breath	ina Zone: I	BH=Boreh	ole: NR=No	 Readings; HS=Hea	dspace	: S=Sample (	l (uncor	ntained)
				44 (	S REQUESTED	42040 S. S. S. S. S. S. S. S. S. S. S. S. S.	tree applies and a second second		and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
			BARROW L		TILGOLOTED		ANCHO	)BAGE	ΙΔΒ
ANALYSES	<b>/</b>	(	CONTAINE	1	ANALYSES	1		TAINE	
		WA	TER	SOIL			WATER		SOIL
TPH		1 liter		8 oz	VOC (8260)		3 x 40 ml	1254	4 oz
PCB					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 m	nl	4 oz	DISS METALS		1 liter		
VOC-BTEX 8020					TDS		250 ml		
					TSS		250 ml		
					тос		500 ml	<b></b>	4 oz
					TCLP		2 liters		2 x 8 oz
					-				

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>			SA	MPLE I	ID: LON-S	S05-2S19-3				
RADAR STATION: PO										
SITE/AOC: SS05 Die	sel Spill		FE	ET FRO	OM FIXED F	POINT:	MAGN	IETIC HEADING	: <u>E</u> a	st
FIXED POINT: Collect										
SAMPLE MATRIX:			Sedime	nt (SD)		Surface Water (SW)		Groundwater (0	GW)	
SAMPLERS: ML,										
TIME SAMPLED: 14						. ,				
SAMPLE DESCRIPTION  Gray sand and graveled						Barrow lab/one to Ai	nchorag	ge) as check on	Barro	ow lab. Dark
SAMPLING METHOD					·					
QA/QC SAMPLES CO					nk (FB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)						e ID				
☐ Ambient Condition	n Blank (Al	B) 🗌 F	Replica	te of So	oil Sample II	D				
					TER PARA					
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY		URBIDITY
		-				TEIMI EIGHORE	10, 5	OI TO GITAVITT		ONDIDITI
				<del></del> -			-	. , , , , , , , , , , , , , , , , , , ,	-	
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			occione. Per de l'anny	MON	IITORING F	READINGS		est out out set out seems and the second	A LESS COMMENT	NI CONTRACTOR
						HANBY SCREEN	NING			
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)				
					W		.,		T-	
BG=Background:	R7-Breath	ina Zone		Rorobo	io: NP-No	Readings; HS=Hea	donce	a. C. Camada /		
Ba-Background, 1	bz-breatt	alling Zone		Boreno	ile, INN=INC	neadings, no=nea	auspac	e; s=sampie (u	incor	itained)
			1	CHECK	ANALYSE	S REQUESTED				
			BAR	ROW LA	AΒ			ANCHOF	RAGE	LAB
ANALYSES			CON	TAINEF	RS.	ANALYSES	1	CONT	ΔINIE	BS.
		.,			1	AIVALIGES	-			
TPH			VATER		SOIL	1		WATER		SOIL
PCB	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
						SVOC (8270)		1 liter		8 oz
PESTICIDES				1		TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020				<u> </u>		TDS		250 ml		
					TSS		250 ml			
			****			тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
						TPH	1			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SAMPLE	ID: LON-SS	05-SD01					
RADAR STATION: P							111 1-11			
SITE/AOC: SS05 Die						N	MAGNETIC HE	ADING	6: <u>270°</u>	
FIXED POINT: The	midpoint o	f the west	side of the	furthest nort	hwest tank.					
SAMPLE MATRIX:	Soil (S)	Sec	diment (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: RT,					····					
TIME SAMPLED: 11										
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>QA</u>	A/QC sample	e. Sands ar	nd gravel.		- and			
SAMPLING METHOD	): Scoon								· · · · · · · · · · · · · · · · · · ·	
QA/QC SAMPLES CO		·	uinment Bla	nk (FB)	☐ QA/QC Ex	tra Voli	ımes			
☐ Trip Blank (TB)				, ,	ID					
☐ Ambient Conditio	n Blank (Al									
		, ,		TER PARA	· ·			-		
	T					T				
TIME	PH		CONDUCTI	VITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY	
	Established Street	Miles Section Attraction to the Section Co.		244.255.257.257.0 <b>52.0</b> 3	ing the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	position de la socie		36-16-15-15-15-15-15-15-15-15-15-15-15-15-15-	errus Sissission en in	
			MON	NITORING R	EADINGS					
					HANBY SCREEN	IING		İ		
TIME	PID READ	ING (ppm	n) CG/L	EL (%)	(standard/ppm)					
PC-Packground:	P7Proath	ina Zana:	PU-Porobo	olo: ND-No	Poodings: UC_Uss	donoo	o: C Comple /	unaar	stainad)	
BG-Background,	DZ-Dream	ing zone,	BH-Bolen	DIE, INTI-INU	Readings; HS=Hea	uspace	e, s=sample (	uncor	itairieu)	
			✓ CHECH	( ANALYSES	REQUESTED					
		ſ	BARROW L	AB			ANCHO	RAGE	LAB	
			CONTAINE	20		_	CON	EAINIE"	DC .	
ANALYSES	/	,	CONTAINE	15	ANALYSES	/	CON	TAINE	no	
		WA	ATER	SOIL			WATER		SOIL	
ТРН	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB					SVOC (8270)		1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 liter		8 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1				TDS		250 mi			
					TSS		250 ml			
					TOC		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: 8-25-93 SAMPLE ID: LON-SS05-SD02										
RADAR STATION: P										
SITE/AOC: SS05 Die								AGNETIC HEAL	OINC	3: 262°
FIXED POINT: Mid	point of the	west side	e of th	e furthe	est southwe	est tank.				
SAMPLE MATRIX: [	☐ Soil (S)	■ Se	edimei	nt (SD)		Surface Water (SW)		Groundwater (G	(Wa	
SAMPLERS: ML									_	
TIME SAMPLED: 1						(feet): 0 to 0.5				
SAMPLE DESCRIPTI	ON/COMM	ENTS: P	eat an	d sod l	ocated in p	onded area 70 feet	due we	st of tank farm.		
SAMPLING METHOD	N. Cooon									<u></u> .
				DI	. (55)					
QA/QC SAMPLES C Trip Blank (TB)	OLLEGIED					QA/QC Ex				
☐ Ambient Condition	n Blank (Δl	B) □ B	upiicai onlicat	e of So	il Cample II	e ID				
	- Dianic (ra									
	<del></del>			WA	TER PARA	METERS	1	***************************************	<del>, -</del> -	
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVITY	T	URBIDITY
							<del>                                     </del>		$\top$	
									+	
	Salarini (C. S. S. S. S. S. S. S. S. S. S. S. S. S.		hil Norga Bushir	nichestic er	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		8-60000 00 <b>00</b>	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o		
				MON	IITORING F	READINGS				
						HANBY SCREEN	VING			
TIME	PID READ	JING (ppn	n)	CG/LE	EL (%)	(standard/ppm)				
										_
					, , , , , , , , , , , , , , , , , , , ,		7		$\top$	
BG=Background:	R7=Breath	ing Zone		Roreho	la: NR-No	Readings; HS=Hea		-: C. Comple (u		- + - :1\
	DZ-Diodaii	ing Zono,	dra projectico	Piri Payda selici	h. Heli jaskisee 7	。 - 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1	auspau	e; S=Sample (ui	COL	itainea)
	1	г		CHECK	ANALYSE	S REQUESTED	,			
			BARR	ROW LA	.В			ANCHOR	AGE	LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CONTA	INE	RS
		W.	'ATER		SOIL		-	WATER		SOIL
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		<u>-</u>		
PESTICIDES						`		1 liter		8 oz
					<u> </u>	TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter		]	8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
TCLP 2 liters 2 x 8									2 x 8 oz	
								•		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			AMPLE I	D: <u>LON-SS</u>	S05-SD03				
RADAR STATION: <u>P</u>	oint Lonely	W	EATHER	R: <u>Overca</u>	ast, humid, cold, 40°	F	· · · · · · · · · · · · · · · · · · ·		
SITE/AOC: SS05 Die					POINT: 50	N	MAGNETIC HE	ADING	à: <u>285°</u>
FIXED POINT: The									
SAMPLE MATRIX: [ SAMPLERS:DP		Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 1			Г	DEPTH OF :	SAMPLE (feet): Sur	face			
SAMPLE DESCRIPTI		ENTS: Fine sa					taining, visible	sheer	and strong
petroleum odor.	,				1				
SAMPLING METHOD	Dedicate	d scoop							
QA/QC SAMPLES C	OLLECTED	: 🗌 Equipn	nent Blai	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)		☐ Duplica	ate of Wa	ater Sample	e ID				
☐ Ambient Condition	n Blank (Al								
			WA	TER PARA	METERS				
TIME	PH	CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γŢ	URBIDITY
	1				121111 2.17.1 0.12			<u> </u>	
				,					
			MON	IITORING F	READINGS				
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING			
		<u> </u>	<u> </u>	(*)				_	
BG=Background;	BZ=Breath	ing Zone; BH:	=Boreho	ile; NR=No	Readings; HS=Hea	dspac	e; S=Sample	(uncor	ıtained)
		✓	CHECK	ANALYSE	S REQUESTED			erken sere	
		BAR	ROW LA	<b>\</b> Β			ANCHO	RAGE	LAB
ANALYSES	1	CON	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS
		WATER	}	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ					SVOC (8270)		1 liter	,	8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter		8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1		<u>.l</u>		TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>8-25-93</u>			SA	AMPLE I	D: LON-S	S05-SD04				
RADAR STATION: P										
SITE/AOC: SS05 Die	sel Spill		FE	ET FRO	M FIXED I	POINT: <u>53</u>	N	MAGNETIC HEA	DINC	G: <u>210°</u>
FIXED POINT: The										
SAMPLE MATRIX: [ SAMPLERS: PG,		<b>S</b> S	Sedime	ent (SD)		Surface Water (SW)		Groundwater (0	(WE	
TIME SAMPLED: 14			DE	EPTH OI	F SAMPLE	(feet): 0 to 0.5		,		
SAMPLE DESCRIPTION							ganic r	material collected	d in	onded area
at eye of outlet pipe.										
SAMPLING METHOD	: Dedicate	ed scoop								
QA/QC SAMPLES CO	DLLECTED									
☐ Trip Blank (TB)			uplica	te of Wa	ater Sample	e ID				
☐ Ambient Conditio	n Blank (A	B) 🗆 F	leplica	te of So	il Sample II	)				
	· · · · · · · · · · · · · · · · · · ·			WA ⁻	TER PARA	METERS				
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVITY	Т	URBIDITY
									+	
									+	
	T. Berkelderen in 1835 M	Richard Carry Street	NES PROBLEM	es Santagarana	. Yeografia		17 (17 (18 (18 (18 (18 (18 (18 (18 (18 (18 (18	water to his to have the following to the second	2010	NOS INTERNACIONAL IL
				MON	ITORING F	READINGS			*******	
						HANBY SCREEN	NING			
TIME	PID REAL	DING (pp	m)	CG/LE	L (%)	(standard/ppm)			_	
BG=Background	BZ=Breath	ina Zone	· BH=	:Borehol	le: NR-No	Readings; HS=Hea	denac	o: S—Sample (u		toinad)
Dad Dad Grant Constitution	DI DI OGLI	ming Zome	English at a Si	or Substitution	The constant free land	The Company State of Committee and the	auspac	e, 5=5ample (ul	ncor	itainea)
		Τ	1	CHECK	ANALYSE	S REQUESTED				
			BARE	ROW LA	.B			ANCHOR	AGE	LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CONTA	AINE	RS
		v	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

MAGNETIC   Point Lonely   MEATHER:   Misty, friend	DATE: <u>8-25-93</u>				MPLE I	D: LON-S	S05-SD05				
SAMPLE MATRIX:				WEATHER: Misty, frigid							
SamPle Matrix:   Soil (S)				_ FEE	ET FRO	M FIXED F	POINT:	MAGN	IETIC HEADIN	G: <u>Sc</u>	outh
SAMPLERS   PG_JM											
DEPTH OF SAMPLE (leet): 0 to 0.5			Se	edimen	t (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLE DESCRIPTION/COMMENTS:   Midpoint of ponded area south of raised gravel pad.   Collect with \$S05-SW05.   Organic ich clay, heavy black staining, reduced organic odor.				DEF	PTH O	F SAMPLE	(feet): 0 to 0.5				
CANDILON, Neavy Dilack staining, reduced organic color.   Spadle and scolor.   Spadle and s	SAMPLE DESCRIPTI							pad. (	Collect with SS	05-SW	/05. Organi
Caylor Samples Collected											
Trip Blank (TB)	SAMPLING METHOD	): <u>Spade a</u>	ınd scoop								
Ambient Condition Blank (AB)	QA/QC SAMPLES C	OLLECTED	: 🗆 Eq	quipme	nt Blar	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
TIME	☐ Trip Blank (TB)		☐ Du	ıplicate	of Wa	ater Sample	e ID				
TIME         PH         CONDUCTIVITY         TEMPERATURE         SPECIFIC GRAVITY         TURBIDITY           ANALYSES         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         BARCHOWN LAB         HANBY SCREENING (standard/ppm)         Image: Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	☐ Ambient Conditio	n Blank (A	B) 🗌 Re	plicate	of So	il Sample II	O				
March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   Mar					WA	TER PARA	METERS				
March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   Mar	TIME	PH		T			TEMPERATURE	SPE	CIEIC GRAVIT	v   1	URRIDITY
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HOR SCANDARD (standard/ppm)         HANBY SCREENING (standard/ppm)         ANALYSES         SS SAMPLE (uncontained)           ANALYSES         ✓         CONTAINERS         ✓         ANALYSES LAB         ANALYSES         ✓         CONTAINERS         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         TOTAL METALS         1 liter         8 oz         TOTAL METALS         1 liter         HANCHORAGE LAB							TEIVII EIVATOTAE	10, 5	LOI TO GITAVITI		ONDIDITI
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HOR SCANDARD (standard/ppm)         HANBY SCREENING (standard/ppm)         ANALYSES         SS SAMPLE (uncontained)           ANALYSES         ✓         CONTAINERS         ✓         ANALYSES LAB         ANALYSES         ✓         CONTAINERS         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         TOTAL METALS         1 liter         8 oz         TOTAL METALS         1 liter         HANCHORAGE LAB							· · · · · · · · · · · · · · · · · · ·	-			
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HOR SCANDARD (standard/ppm)         HANBY SCREENING (standard/ppm)         ANALYSES         SS SAMPLE (uncontained)           ANALYSES         ✓         CONTAINERS         ✓         ANALYSES LAB         ANALYSES         ✓         CONTAINERS         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         TOTAL METALS         1 liter         8 oz         TOTAL METALS         1 liter         HANCHORAGE LAB					*******						
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HOR SCANDARD (standard/ppm)         HANBY SCREENING (standard/ppm)         ANALYSES         SS SAMPLE (uncontained)           ANALYSES         ✓         CONTAINERS         ✓         ANALYSES LAB         ANALYSES         ✓         CONTAINERS         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         TOTAL METALS         1 liter         8 oz         TOTAL METALS         1 liter         HANCHORAGE LAB											
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HOR SCANDARD (standard/ppm)         HANBY SCREENING (standard/ppm)         ANALYSES         SS SAMPLE (uncontained)           ANALYSES         ✓         CONTAINERS         ✓         ANALYSES LAB         ANALYSES         ✓         CONTAINERS         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         WATER         SOIL         TOTAL METALS         1 liter         8 oz         TOTAL METALS         1 liter         HANCHORAGE LAB	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	taki di sangan kabupatèn Tang	Sk tronica, in the skets		MON	ITORING F	READINGS		**************************************	1600361488	TO SERVE SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SERVER SER
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)         Image: control of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of					WOT	TOTAL CO			1	1	***************************************
BG=Background; BZ=Breathing Zone; BH=Sorten   NR=No Readings; HS=Headspace; S=Sample (uncontained)	TIME	PID REAL	DING (ppm	1)	CG/LE	EL (%)		NING			
BARROW LAB   BARROW LAB   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANAL		· · · · · · · · · · · · · · · · · · ·	(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	<del>"</del>		(/-/	(Cianosi e, ppini)				
BARROW LAB   BARROW LAB   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANAL											
BARROW LAB   BARROW LAB   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANAL		<u>.</u>	7								
BARROW LANALYSES	BG=Background;	BZ=Breath	ning Zone;	BH=E	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncor	ntained)
ANALYSES				<b>√</b> C	HECK	ANALYSE	S REQUESTED				
ANALYSES				BARR	OW LA	.B			ANCHO	RAGE	IAR
WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 liter         8 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TOS         250 ml            TOC         500 ml         4 oz				<del></del>		31-200000				<del>.</del>	
TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz	ANALYSES			CONT	AINER	S	ANALYSES	1	CON	TAINE	RS
PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz			W.A	ATER		SOIL			WATER		SOIL
PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 liter         8 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml             TOC         500 ml         4 oz	TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 mi		4 oz
HVOC 8010       1 liter       8 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz	PCB						SVOC (8270)		1 liter		8 oz
VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml            TOC         500 ml         4 oz	PESTICIDES						TOTAL METALS		1 liter		8 oz
TSS 250 ml TOC 500 ml 4 oz	HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
TOC 500 ml 4 oz	VOC-BTEX 8020	1					TDS		250 ml		
	-AXMAN-						TSS		250 ml		
TCLP         2 liters         2 x 8 oz							TOC		<del> </del>		4 oz
							TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SA	AMPLE	ID: LON-S	S05-SD06					
RADAR STATION: P	oint Lonely	!	w	EATHE	R: <u>Misty,</u>	frigid	-				
SITE/AOC: SS05 Die							MAG	NETIC HEADI	NG: S	 SE	
FIXED POINT:											
SAMPLE MATRIX:		<b>S</b>	Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: PG											
TIME SAMPLED: 20						(feet): 0 to 0.5					
SAMPLE DESCRIPTION	UN/COMM	ENIS: S	outhea	ast area	of ponded a	area along berm. Co	llect wi	th SS05-SW06	. Orga	anic rich clay	
heavy petroleum (bla SAMPLING METHOD				nd redu	iced organi	odor.					
				ont Dia	ak (ED)	T 04/00 F					
☐ Trip Blank (TB)	JEEGIED		quipir	ipment Blank (EB)							
	n Biank (A		oplica	te of Co	ater Sample	טו	-				
Ambient Conditio	II Dialik (A	D) L. r	replica	te or sc	oli Sample II						
	<del></del>		,	WA	TER PARA	METERS	_				
TIME	PH		CON	ONDUCTIVITY TEMPERATURE			SPE	CIFIC GRAVIT	-   Y	TURBIDITY	
				· · · · · · · · · · · · · · · · · · ·							
							-		-		
				MON	IITORING F	EADINGS					
						HANBY SCREET	NING				
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)					
							***************************************				
BG=Background:	BZ=Breath	ina Zone		:Roreho	le: NR-No	Readings; HS=Hea	denac	l S-Sample	/upaa.	atoined)	
				Bolcho	ic, ivi	rteadings, 113—free	uspaci	e, s=sample	(uncor	itained)	
		<del> </del>	<u> </u>	CHECK	ANALYSES	REQUESTED					
			BARF	ROW LA	AB			ANCHO	RAGE	E LAB	
ANALYSES			CON	TAINER	NS	ANALYSES	1	CON	TAINE		
					<u> </u>	ANALISES	-			Γ	
			VATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB						SVOC (8270)		1 liter		8 oz	
PESTICIDES			_	<del> </del>		TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 liter			8 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1		·			TDS		250 ml			
						TSS		250 ml			
						тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	
			_								

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>		S <i>i</i>	AMPLE II	D: <u>LON-SS</u>	05-SD07-1					
RADAR STATION: P										
SITE/AOC: SS05 Die		F	EET FRO	M FIXED P	OINT:	MAGN	IETIC HEADIN	G: <u>N</u>	<u>N</u>	
FIXED POINT:										
SAMPLE MATRIX: [ SAMPLERS: ML,		Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)		
TIME SAMPLED: 11		D	EPTH OF	SAMPLE	(feet): 1		·			
SAMPLE DESCRIPTION						of pad.	Collect with	SS05-9		
material with some po										
SAMPLING METHOD	: Spade a	nd scoop								
QA/QC SAMPLES CO	OLLECTED:	: 🗌 Equipn	nent Blar	nk (EB)	☐ QA/QC Ex	tra Volu	ımes			
☐ Trip Blank (TB)					ID					
☐ Ambient Conditio	n Blank (Al	B) 🖪 Replica	te of So	il Sample II	LON-SS05-SD08					
			WA	TER PARAM	METERS					
TIME	PH	CON	IDUCTIV	ΊΤΥ	TEMPERATURE	RE SPECIFIC GRAVITY			URBIDITY	
			,							
						<del>                                     </del>				
	nue (esta d'Adultacomas-	TO THE RESIDENCE OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON		ATCOM SIGNATURE OF SIGNATURE	THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	TO SERVICE	THE STREET WAS ASSESSED.		**************************************	
			MON	IITORING R	EADINGS					
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING				
BG=Background;	BZ=Breath	ing Zone; BH:	=Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample	(uncor	ntained)	
	ericina	/	CHECK	ANALYSES	S REQUESTED					
		T	ROW LA				ANCHO	RAGE	LAB	
***********			NTAINEF		ANIALVOEC		CON	TAINE	RS.	
ANALYSES	/	WATER		SOIL	ANALYSES	/	WATER		SOIL	
TOLL	1,	1 liter	1	8 oz	VOC (8260)	<i>J</i>	3 x 40 ml		4 oz	
TPH PCB	<b>✓</b>	i iitei		0 02	SVOC (8270)	1	1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 liter	T	8 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1	1		3 32	TDS		250 ml	L		
					TSS		250 ml			
					TOC	1	500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	
		<u> </u>		1	<u> </u>	1				

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SA	MPLE I	D: <u>LON-SS</u>	05-SD08-1				
RADAR STATION: <u>P</u>	oint Lonely		WE	EATHER	: Misty, f	rigid				
SITE/AOC: SS05 Die	sel Spill		FE	ET FRO	M FIXED P	OINT:	MA	GNETIC HEAD	ING:	
FIXED POINT:										
SAMPLE MATRIX: [ SAMPLERS: JM,			Sedime	nt (SD)		Surface Water (SW)		Groundwater (	ЭW)	
TIME SAMPLED: 15			DE	PTH OF	SAMPLE	(feet): 1	•			
SAMPLE DESCRIPTION							of pad.	Collect with S	S05-9	SW07. Cla
material with some p										
SAMPLING METHOD	):									
QA/QC SAMPLES C	OLLECTED:	: 🗆 E	Equipm	ent Blar	nk (EB)	☐ QA/QC Ex	tra Volu	umes		
☐ Trip Blank (TB)						ID				
Ambient Condition	n Blank (A	3) <b>I</b> F	Replicat	te of So	il Sample II	LON-SS05-SD07				
				WA ⁻	TER PARAI	METERS				
TIME	PH		CON	DUCTIV	ΊΤΥ	TEMPERATURE	SPE	CIFIC GRAVITY	' Т	URBIDITY
					····		<del> </del>			
	<del></del>								-	
	Marie de la reciona de paga esta esta esta esta esta esta esta est	· vonassautinas auto sautos	Seller en	No service and the second						
				MON	ITORING R	EADINGS		William William		Electronic State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State S
						HANBY SCREEN	IING			
TIME	PID READ	ING (pp	om)	CG/LE	L (%)	(standard/ppm)				
PC Poolsorounds	DZ Drasth	ina Zon	o. DII	Daraha	les NID Nie	Deadings UC Use		. 0. 0		
BG=Background,	DZ=Dream	ing zon	e, bn=	boleno	ie; INH=INO	Readings; HS=Hea	lospaci	e; S=Sample (t	Incon	itained)
			1	CHECK	ANALYSES	REQUESTED				
			BAR	ROW LA	.В			ANCHO	RAGE	LAB
*******			CON	ITAINER						
ANALYSES	/		CON	IAINEN	.s	ANALYSES	/	CONT	AINE	no
		١	WATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ						SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 liter			8 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1		2.UB			TDS		250 ml		
						TSS		250 ml		
						тос	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>		S	AMPLE I	ID: <u>LON-S</u>	S05-2SD09					
RADAR STATION: P	oint Lonely	V	/EATHER	R: <u>Windy,</u>	rainy, cold					
SITE/AOC: SS05 Die	esel Spill	F	EET FRO	OM FIXED F	POINT: 30	MAG	NETIC HEADIN	IG: <u>S</u>	W	
FIXED POINT:										
SAMPLE MATRIX:	` '	Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: ML					(f )) 0					
TIME SAMPLED: <u>13</u>					(feet): 0 to 0.5	lloot T	DII onobiano f	~ · ^ · ·		
SAMPLE DESCRIPTI Barrow lab to check						nect i	Ph analyses i	or And	chorage and	
SAMPLING METHOD			y Silty Cic	ay at interia	ce or turidra mat.					
QA/QC SAMPLES C			nent Bla	nk (ER)	□ OA/OC Ev	tra Voli	imes		· · · · · · · · · · · · · · · · · · ·	
☐ Trip Blank (TB)	OLLLOILD				e ID					
☐ Ambient Conditio	n Blank (Al									
				TER PARA						
TIME	T DILL			5/25/- 4/40/		Tope	0.510.00.00			
TIME	PH	COL	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y 1	TURBIDITY	
				×			<del></del>			
	Marie Carlo Company		all have been a subject to			70 E S T T T T T T T T T T T T T T T T T T	7. Marie 1980	MENTAL SERVICES	PROPERTY OF STREET	
		J	MON	IITORING F	READINGS					
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	IING				
		(11-7)			(					
								_		
BG=Background;	BZ=Breath	ning Zone; BH:	=Boreho	ole; NR=No	Readings; HS=Hea	ıdspac	e; S=Sample (	uncor	ntained)	
TATESAL TOWNSHAM COMM	(* ) (* ) (* ) (* ) (* ) (* ) (* ) (* )	en de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la const	CHECK	ANALYSE	S REQUESTED		N a Michigan Calabata State Control of the		A Constitution (Constitution (	
			RROW LA		1	, , , , , , , , , , , , , , , , , , , ,	ANCHO	RAGE		
					-					
ANALYSES	/	COI	NTAINEF	rs T	ANALYSES	1	CON	TAINE	:RS	
		WATE	R	SOIL			WATER		SOIL	
TPH	/	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB					SVOC (8270)		1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020					TDS		250 ml			
					TSS		250 ml			
					тос		500 ml		4 oz	
					TO: 0	ļ	Olitoro		00	
					TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>				MPLE I	ID: LON-S	S05-2SD10					
RADAR STATION: P	oint Lonely		_ W	EATHER	R: Windy	overcast, cold					
SITE/AOC: SS05 Die	esel Spill		_ FE	ET FRO	OM FIXED F	POINT: 30	MAG	NETIC HEADII	NG: _S	South	
FIXED POINT:											
SAMPLE MATRIX:		S	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS:JM, TIME SAMPLED: 10		<del></del>		DTUO	E CANADI E	/f==0 01 1					
						(feet): 0 to 6 inches					
SAMPLE DESCRIPTION mat and subsurface		EN 13. <u>C</u> C	Silect	ou reer s	outh of SSC	15-SDU6. Light gray s	sity clav	<u>/, saturated at i</u>	oounc	lary of tundra	
SAMPLING METHOD		nd scoon	`								
QA/QC SAMPLES C				ant Dia							
☐ Trip Blank (TB)	OLLEGIED					☐ QA/QC Ex					
☐ Ambient Condition	n Blank (Δ	B) $\square$ B	aplica	te of So	alei Sample ii Sample II	e ID					
- Ambient Condition	= Diank (A	D) ( 110	ерпса	16 01 30							
				WA	TER PARA	METERS					
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ -	TURBIDITY	
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				MON		READINGS		<u> </u>			
   TIME	PID READ	NNG (pp	m)	CC/I	-I (o/)	HANBY SCREEN	IING				
TIVIC	FID NEAL	лис (ррг	111)	OG/LE	EL (%)	(standard/ppm)	<del></del>		-		
		****									
BG=Background:	BZ=Breath	ina Zone	: BH=	Boreho	te: NR=No	Readings; HS=Hea	ndsnace	s S-Sample I	uncoi	ntained)	
	er i entanem a colonia i massera (sen		n retours		a samena saturban n	CONTRACTOR OF THE STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STRE	аорио	s, o — oumple (	anoo.	itanica)	
	Υ			CHECK	ANALYSE	S REQUESTED					
			BAR	ROW LA	<b>λ</b> B			ANCHO	RAGE	E LAB	
ANALYSES			COM	TAINER	20	111111111111111111111111111111111111111		CON	TAINIT	.DC	
ANALISES	_ /			ITAIINE		ANALYSES	/	CON	IAINE	:no	
		W	ATER		SOIL			WATER		SOIL	
TPH	<u> </u>	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES				·•		TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 i	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020						TDS		250 ml			
						TSS		250 mi			
						тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>		s	AMPLE!	D: <u>LON-SS</u>	S05-2SD11						
RADAR STATION: P	oint Lonely	W	/EATHEF	R: <u>Sunny,</u>	windy, cold, 30°F						
SITE/AOC: <u>SS05 Die</u> FIXED POINT:		F	EET FRO	OM FIXED F	POINT: 30	MAGN	ETIC HEADING	3: <u>No</u>	rth		
SAMPLE MATRIX:	• •	Sedim	ent (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: ML,			EDTU O	5 0 4 4 5 1 5	//						
TIME SAMPLED: <u>15</u> SAMPLE DESCRIPTION					(feet): 0 to 0.5	Dark or	av eilty clay at	interfa	co of tundra		
mat.	JIN/COIVIIVIE	ENTS. Collect	Sample	at 50 feet fit	<u> </u>	Daik yi	ay siily clay al	IIIIGIIA	ce or turiora		
SAMPLING METHOD	: Spade a	nd scoop									
QA/QC SAMPLES CO			nent Blai	nk (FB)	☐ QA/QC Ex	tra Volu	ımes				
☐ Trip Blank (TB)					ID						
☐ Ambient Conditio	n Blank (Af										
			WA	TER PARAI	METERS						
TIME	PH	COI	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY		
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			МОМ	IITORING F	READINGS						
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREET (standard/ppm)	NING					
				· · · · · · · · · · · · · · · · · · ·							
BG=Background;	BZ=Breath	ing Zone; BH	=Boreho	ole; NR=No	Readings; HS=Hea	adspace	e; S=Sample	(uncor	itained)		
		J	CHECK	( ANALYSE	S REQUESTED		5 mars 1964 of 1965 of 1965 of 1965 of 1965 of 1965 of 1965 of 1965 of 1965 of 1965 of 1965 of 1965 of 1965 of				
		BAF	ROW LA	AB			ANCHO	RAGE	LAB		
ANALYSES	1	СО	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS		
		WATE	٦	SOIL			WATER		SOIL		
ТРН	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
PCB					SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020				-	TDS		250 ml				
					TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; ice all samples to  $4^{\circ}C$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>			SA	AMPLE I	D: LON-S	S05-2SD12					
RADAR STATION: PO	oint Lonely		_ w			cold, windy, 33°F				***************************************	
SITE/AOC: SS05 Die	sel Spill		_ F8	EET FRO	M FIXED	POINT: 40	MAGN	IETIC HEADING	3: <u>N</u> c	orth	
FIXED POINT:											
SAMPLE MATRIX:			Sedime	ent (SD)		Surface Water (SW)		Groundwater (	GW)		
SAMPLERS: ML,											
TIME SAMPLED: 15											
SAMPLE DESCRIPTION	ON/COMM	ENTS: C	Collect	sample	at 180 feet	west (down drainag	e) of S	S05-SD03 berm	and	40 feet north	
of berm. Light gray s	· · · · · · · · · · · · · · · · · · ·			mat.							
SAMPLING METHOD					. (55)					· · · · · · · · · · · · · · · · · · ·	
QA/QC SAMPLES CC ☐ Trip Blank (TB)	DLLEGIED										
	n Blank (A		uplica	licate of Water Sample IDlicate of Soil Sample ID							
Ambient Condition	II DIAIIK (A	D) L F	replica	16 01 20	Sample I						
	1			WA.	TER PARA	METERS					
TIME	PH		CON	IDUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVITY	/   -	TURBIDITY	
	<del>                                     </del>						-		_		
	Sand Street Control			Notice seeming of	ronista Charles		- Di Brodensew		. Control of the same		
				MON	ITORING F	READINGS			54 h04 1 / 10 h		
						HANBY SCREE	NING				
TIME	PID READING (ppm)			CG/LE	L (%)	(standard/ppm)					
	****								<del> </del>		
DC Backers and 5	37 D										
BG=Background; E	3Z=Breath	ing Zone	e; BH=	Borehol	e; NR=Nc	Readings; HS=Hea	adspac	e; S=Sample (ι	ncoi	ntained)	
			1	CHECK	ANALYSE	S REQUESTED					
			BAR	ROW LA	В			ANCHO	RAGE	IΔR	
41111050				TAINED		1					
ANALYSES	-		CON	TAINER	<u> </u>	ANALYSES	1	CONT	AINE	RS	
		N	/ATER		SOIL		:	WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	mi		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020						TDS	-	250 ml			
				_1		TSS		250 ml			
						TOC		500 ml		4.07	
	-							T		4 oz	
						TCLP		2 liters		2 x 8 oz	
					-						

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO $_3$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4<b>-</b>93</u>		s	AMPLE II	D: <u>LON-SS</u>	305-2SD13		·		·····
RADAR STATION: P	oint Lonely	W	/EATHER	l: <u>Windy,</u>	cold, cloudy				
SITE/AOC: SS05 Die				M FIXED F	POINT: <u>25</u> M	IAGNE	TIC HEADING	: Sout	th
FIXED POINT: Utility	pole at eas	stern edge of	oad.						
SAMPLE MATRIX:	Soil (S)	Sedim	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML,									
ΓIME SAMPLED: <u>14</u>					. ,				
SAMPLE DESCRIPTION					of S18 and 25 feet off	easterr	most utility po	ole in tu	undra. Sand
and gravel fill below 2		Saturated, org	anic odo	г.				-	
SAMPLING METHOD					-				
QA/QC SAMPLES CO	OLLECTED			· ·					
Trip Blank (TB)	D				ID			<del> </del>	
Ambient Conditio	n Blank (Al	B) LI Replic	ate of So	ıı Sample II					
			WA ⁻	TER PARAI	METERS				
TIME	PH	COL	NDUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY
	1								
						ļ			
"Translation of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the C	A CONTRACTOR						THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PERSON NAMED OF THE PE	2:00:00	
			MON	ITORING F	READINGS				
					HANBY SCREEN	IING			
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	(standard/ppm)				
					<u> </u>				
BC Bookgrounds	D7—Prooth	ina Zono: PU	_Porcho	lo: ND-No	Readings; HS=Hea	depac	o: C-Cample	/uncor	atainod)
BG=Background,	DZ=Diedu	iiig zone, bh	= Boreno	ie, inn=no	neadings, 115—11ea	iuspaci	s, 3—Sample	(uncor	named)
			CHECK	ANALYSE	S REQUESTED				
		BAF	RROW LA	ΛB			ANCHO	RAGE	LAB
			NITAINIEE		-				
ANALYSES	/	CO	NTAINEF	15	ANALYSES		CON	TAINE	rs I
		WATE	R	SOIL			WATER		SOIL
ТРН	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ					SVOC (8270)		1 liter		8 oz
<b>!</b>		-							
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020					TDS		250 ml		
					TSS		250 ml		
		<u> </u>							
			·		TOC		500 ml		4 oz
					TCLP		2 liters	<u> </u>	2 x 8 oz
		I		1		1	<u> </u>		1

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

RADAR STATION: Point Lonely WEATHER: Cloudy, windy, cold, 33°F  SITE/AOC: SS05 Diesel Spill FEET FROM FIXED POINT: 10 MAGNETIC HEADING: South  FIXED POINT:  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: ML, JM  TIME SAMPLED: 15:40 DEPTH OF SAMPLE (feet): 0-0.5  SAMPLE DESCRIPTION/COMMENTS: Collect 10 feet south of SS05-SD04 as confirmation sample. Sand and gravel fill saturated at edge of ponded area.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID
SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: ML, JM  TIME SAMPLED: 15:40 DEPTH OF SAMPLE (feet): 0-0.5  SAMPLE DESCRIPTION/COMMENTS: Collect 10 feet south of SS05-SD04 as confirmation sample. Sand and gravel fill saturated at edge of ponded area.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes
SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: ML, JM  TIME SAMPLED: 15:40 DEPTH OF SAMPLE (feet): 0-0.5  SAMPLE DESCRIPTION/COMMENTS: Collect 10 feet south of SS05-SD04 as confirmation sample. Sand and gravel fill saturated at edge of ponded area.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes
SAMPLERS:ML, JM  TIME SAMPLED:15:40
TIME SAMPLED: 15:40 DEPTH OF SAMPLE (feet): 0-0.5  SAMPLE DESCRIPTION/COMMENTS: Collect 10 feet south of SS05-SD04 as confirmation sample. Sand and gravel fill saturated at edge of ponded area.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes
SAMPLE DESCRIPTION/COMMENTS: Collect 10 feet south of SS05-SD04 as confirmation sample. Sand and gravel fill saturated at edge of ponded area.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB)  QA/QC Extra Volumes
saturated at edge of ponded area.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes
SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED:   Equipment Blank (EB)   QA/QC Extra Volumes
QA/QC SAMPLES COLLECTED:   Equipment Blank (EB)   QA/QC Extra Volumes
☐ Trip Blank (TB) ☐ Duplicate of Water Sample ID
Archivet Condition Black (AB) The Bush of Carlo
☐ Ambient Condition Blank (AB) ☐ Replicate of Soil Sample ID
WATER PARAMETERS
TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY
MONITORING READINGS
HANBY SCREENING
TIME PID READING (ppm) CG/LEL (%) (standard/ppm)
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)
✓ CHECK ANALYSES REQUESTED
BARROW LAB ANCHORAGE LAB
ANALYSES / CONTAINERS ANALYSES / CONTAINERS
WATER SOIL WATER SOIL
TPH   ✓ 1 liter  8 oz
PCB SVOC (8270) 1 liter 8 oz
PESTICIDES TOTAL METALS 1 liter 8 oz
HVOC 8010
VOC-BTEX 8020 TDS 250 ml
TSS 250 ml
TSS 250 ml TOC 500 ml 4 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SA	MPLE I	D: LON-SS	S05-SW01					
RADAR STATION: Po	int Lonely		_ w	EATHER	R: Misty,	frigid					
SITE/AOC: SS05 Dies							٨	MAGNETIC HE	ADING	3: <u>270°</u>	
FIXED POINT: The	midpoint o	f the we	st side	of the f	urthest nort	hwest tank.					
SAMPLE MATRIX:				nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: <u>DP.</u>				DTUO	5 0 1 1 1 5 1	<i>(</i> ( ))					
TIME SAMPLED: 17: SAMPLE DESCRIPTION											
SAMI LE BESOITH TIC	JIN/OOIVIIVII	LIVI 3. <u>C</u>	JUNECIE	SU WILLI	3303-3001						
SAMPLING METHOD:											
QA/QC SAMPLES CO	LLECTED										
☐ Trip Blank (TB)			Ouplica	te of Wa	ater Sample	ID					
Ambient Condition	Blank (Al	3) 🗌 F	Replicat	te of So	il Sample II	)		····			
				WA	TER PARAI	METERS					
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ 7	URBIDITY	
17:40	6.9		1,030	)		4°C					
				-5							
	torid talenda later and a little and the	Part of the second		MON	IITORING R	EADINGS					
	<u>"</u>		·			HANBY SCREEN	IING				
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)					
	,										
BG=Background; E	3Z=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspac	e; S=Sample	(uncor	ntained)	
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			BARF	ROW LA	AB			ANCHO	RAGE	LAB	
ANALYSES	1		CON	TAINER	IS	ANALYSES	1	CON	TAINE	RS	
		٧	VATER		SOIL			WATER		SOIL	
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
				·		TSS		250 ml			
						тос		500 mi		4 oz	
						TCLP		2 liters		2 x 8 oz	
				W							

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SA	MPLE I	D: LON-S	S05-SW02				
ADAR STATION: Point Lonely WEATHER: Misty, frigid  ITE/AOC: SS05 Diesel Spill FEET FROM FIXED POINT: 150 MAGNETIC HEADING: 262°										
							N	MAGNETIC HE	ADIN	G: <u>262°</u>
FIXED POINT: Mid										
SAMPLE MATRIX:	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>PG</u> ,								·		
TIME SAMPLED: 17	7:35		DE	EPTH O	F SAMPLE	(feet):	···			
SAMPLE DESCRIPTION	ON/COMM	ENIS: C	Collecte	ed with	SS05-SD02					
SAMPLING METHOD	: Dedicate	ed scoop			-					
QA/QC SAMPLES CO				ent Bla	nk (FB)	□ QA/QC Ex	rtra Voli	imes		
☐ Trip Blank (TB)										
☐ Ambient Condition	n Blank (Al	B) 🗆 F	leplicat	te of So	il Sample II	D				
					TER PARA				***************************************	
TIME	PH		CON	DUCTIV		TEMPERATURE	CDE	CIFIC GRAVIT	<i>,</i>	TURBIDITY
			0011	DOON		TEMPERATURE	J SFE	CIFIC GRAVII	Y	TURBIUITY
				-				***	_	~~~
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						HANBY SCREET	MING			
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)	11110			
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									1	
PG-Rackground:	P7 Prooth	ina Zona		Dazaha	In ND No			L		
BG-Background,	DZ=Dieaiii	ing zone	, DH=	Boreno	ie; NH=No	Readings; HS=Hea	adspac	e; S=Sample (	uncor	ntained)
			/	CHECK	ANALYSE	S REQUESTED				
	İ		BARF	ROW LA	λB			ANCHO	RAGE	LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CONT	ΓAINE	RS
		W	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml	-	4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml	1	4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				. 52	TDS		250 ml		
						TSS		250 ml		
					TOC				4.07	
						TCLP	<b> -</b>	500 ml		4 oz
				<del>-</del>		IOLF		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>	<del> </del>	s	AMPLE	ID: <u>LON-SS</u>	S05-SW03						
RADAR STATION: Point Lonely WEATHER: Misty, frigid  SITE/AOC: SS05 Diesel Spill FEET FROM FIXED POINT: 50 MAGNETIC HEADING: 285°											
						N	MAGNETIC HE	ADING	G: <u>285°</u>		
FIXED POINT: The	southwest	corner of the	pump ho	ouse.							
SAMPLE MATRIX: DP,		☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)			
TIME SAMPLED: 17		D	EPTH O	F SAMPLE	(feet):				,		
SAMPLE DESCRIPTI											
SAMPLING METHOD	):	·····									
QA/QC SAMPLES CO	OLLECTED	: 🗌 Equipr	nent Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes				
☐ Trip Blank (TB)		☐ Duplica	ate of Wa	ater Sample	e ID						
Ambient Conditio	n Blank (Al	B) 🗌 Replica	ate of Sc	il Sample II	D						
				TER PARA							
TIME	PH	CON	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ 1	URBIDITY		
17:30	7.3	1,09	0								
Philippine Malace Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Cont	Rik (A) end for end the side of the side	Participan in the participant		oddinas and Torrespond		ksi Salabara			Carlo Manager Control		
			MON	IITORING F	READINGS						
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING					
									**************************************		
BG=Background;	BZ=Breath	ing Zone; BH:	=Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncor	ntained)		
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		<b>√</b>	CHECK	ANALYSE	S REQUESTED		<b>美国公司的</b>				
		BAR	ROW LA	AB			ANCHO	DRAGE	LAB		
ANIALVOTO		CON	NTAINEF	20	ANALYOFO						
ANALYSES	/			i	ANALYSES			TAINE	I		
		WATER	₹ 	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
PCB					SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				TDS		250 ml				
					TSS		250 ml				
					TOC		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SAM	PLE ID:	LON-SS	S05-SW04				
RADAR STATION: PO	oint Lonely	′	_ WEA	THER:	Misty,	cool, frigid				
SITE/AOC: SS05 Die	sel Spill		_ FEET	Γ FROM	FIXED F	POINT: <u>53</u>	N	MAGNETIC HE	ADING	G: 210°
FIXED POINT: The	outfall pipe	e on the s	south side	e.				-		
SAMPLE MATRIX:	] Soil (S)	□s	ediment	(SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: PG,	JM									
TIME SAMPLED: 14	:50		DEPT	TH OF	SAMPLE	(feet):				
SAMPLE DESCRIPTION	ON/COMM	ENTS:								
0.1151.110.1157.105										
SAMPLING METHOD										
QA/QC SAMPLES CO	DLLECTED									
☐ Trip Blank (TB)	<b>-</b>	_ U D	uplicate o	of Wate	r Sample	ID				
☐ Ambient Condition	n Blank (Al	в) 🗆 н	eplicate d	of Soil :	Sample II	)				
	· 1			WATE	R PARAI	METERS				
TIME	PH		CONDU	JCTIVIT	Υ	TEMPERATURE	SPE	CIFIC GRAVIT	/   ¬	URBIDITY
								······································		
									_	
	STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE	mana siidi ing	alian el palancia (176)	- Paulisius en J. Sel	Clarate that was	NOTE OF		Topograma Anna Disay - Anna No. Topograma		
				MONIT	ORING R	READINGS				
						HANBY SCREEN	NING		T	
TIME	PID READ	DING (ppi	m) C	G/LEL	(%)	(standard/ppm)				
		····						***************************************	+	<del></del>
PC - Bookground I	77 December	.: 7	- DII - D -							
BG=Background; 8	5Z=bream	ing zone	; BH=B0	prenole;	NH=No	Headings; HS=Hea	adspac	e; S=Sample (	uncor	ntained)
		y	✓ CH	IECK A	NALYSES	REQUESTED				
			BARRO	W LAB				ANCHO	RAGE	LAB
ANALYSES	1		CONTA	INERS		ANALYSES		CONT	ΛINI⊏	DC
7,117,121010				1		AIVALTSES	<b>/</b>	····	AINL	
			ATER		SOIL			WATER		SOIL
TPH	/	1 liter		1	3 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1 x 40 ml			4	1 oz	DISS METALS	•	1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
				TSS		250 ml				
					***	тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
							<u> </u>			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>		·· -	SA	MPLE II	D: LON-SS	305-SW05				
RADAR STATION: Po	int Lonely WEATHER: Misty, frigid sel Spill FEET FROM FIXED POINT: MAGNETIC HEADING:									
						OINT:	MA	GNETIC HEA	DING:	
FIXED POINT:										······
SAMPLE MATRIX:	` '			nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: PG,					- 0 4 4 5 1 5	<i>(</i> ( )				
TIME SAMPLED: 20 SAMPLE DESCRIPTION									omplo	Dotroloum
sheen highly visible.									ampie	. retroleun
SAMPLING METHOD					***************************************					
QA/QC SAMPLES CO				ent Blar	nk (ER)	OA/OC Ex	tra Voli	imes		
☐ Trip Blank (TB)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					ID				
☐ Ambient Condition	n Blank (AE									, , , , , , , , , , , , , , , , , , , ,
					TER PARA					
TIME	PH		CON	DUCTIV		TEMPERATURE	epe	CIFIC GRAVIT	v T t	URBIDITY
	<u> </u>			DOCTIV	11 1		SFE	CIFIC GRAVII		
20:10	9.0		820			4°C		÷		<1.0
							ļ			
				MON	ITORING R	EADINGS				
						HANBY SCREEN	ling			
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)				
BG=Background: I	B7=Breath	ina Zone		Boreho	le: NR-No	Readings; HS=Hea	ıdsnacı	s: S=Sample	(uncor	ntained)
Bu-Buokground, i		ang Zone		<b>随复用品类的</b> (**1.751*)	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		aopae.	o, o – oumple	(dilooi	nanica)
				CHECK	ANALYSES	S REQUESTED				
			BAR	ROW LA	∖B			ANCHO	RAGE	LAB
ANALYSES	1		CON	ITAINER	S	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH		1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	VOC-BTEX 8020 ✓					TDS		250 ml		
			· · · · · · · · · · · · · · · · · · ·			TSS		250 ml		
				OAT		тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>					SS05-SW06				
RADAR STATION: Po	oint Lonely	<b>/</b>	_ WEATH	ER: Misty	frigid				
SITE/AOC: SS05 Dies	sel Spill		_ FEET FF	ROM FIXED	POINT:	_ MAG	NETIC HEADIN	IG: 3	SE
FIXED POINT:									
SAMPLE MATRIX:	Soil (S)	☐ Se	ediment (SD	)	Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: PG,	JM								
TIME SAMPLED: 20:	:00		DEPTH	OF SAMPLE	(feet):				
SAMPLE DESCRIPTIO	N/COMM	ENTS: <u>So</u>	utheast corr	ner of ponde	ed area. Collected wit	h SS05	-SD06. Surface	petro	oleum sheer
heavy, and apparent.							-		
SAMPLING METHOD:									
QA/QC SAMPLES CO	LLECTED	): ∐ Ec	quipment BI	ank (EB)	☐ QA/QC E	dra Vo	umes		
☐ Trip Blank (TB)	DI 1 /4	□ Du	uplicate of V	Vater Samp	e ID				
☐ Ambient Condition	Blank (A	B) L Re	eplicate of S	oil Sample	ID				<u> </u>
			W	ATER PARA	METERS				
TIME	PH		CONDUCT	IVITY	TEMPERATURE	SPE	CIFIC GRAVITY	, -	TURBIDITY
20:05	8.3		850		4°C				
	<b>——</b>				1 7 0	_	****	_	<1.0
			*****						
	3.27	Section 2015 Section 2015	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon						
			МО	NITORING	READINGS	2. N			enal process and an entre
					HANBY SCREET	VINC		1	<del></del>
TIME	PID REAL	DING (ppm	n) CG/L	EL (%)	(standard/ppm)	VIIVG			
								+	
								+	
	_								
BG=Background; B	Z=Breath	ning Zone;	BH=Boreh	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample (u	ıncor	ntained)
			✓ CHEC	K ANALYSE	S REQUESTED	alle grand in the gran	om en græn ikknigstækkrigelen	10.0355800	हर प्रतिहासका की करिया कर था। -
			BARROW L	AB			ANCHOF	2400	- 1 AD
4444.40=0			·				ANCHOR	IAGE	LAB
ANALYSES	1		CONTAINE	RS T	ANALYSES	1	CONT	AINE	RS
		WA	ATER	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB					SVOC (8270)		1 liter		8 oz
PESTICIDES					<del></del>		<del>-                                    </del>		
HVOC 8010		1 10	.	+	TOTAL METALS		1 liter		8 oz
		1 x 40 m	וו	4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
				TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

MAGNETIC Lonely	DATE: <u>8-25-93</u>			SA	MPLE I	D: <u>LON-SS</u>	05-SW07		· · · · · · · · · · · · · · · · · · ·		
SAMPLE MATRIX:	ADAR STATION: Point Lonely WEATHER: Misty, frigid										
SamPLE MATRIX:	SITE/AOC: SS05 Die	sel Spill		_ FE	ET FRO	M FIXED P	OINT:	MAGN	ETIC HEADING	3: <u>NV</u>	<b>/</b>
SAMPLERS											
TIME		` '	□s	edime	nt (SD)		Surface Water (SW)		Groundwater (	(GW)	
SAMPLE DESCRIPTION/COMMENTS:   Nonthwest corner of ponded area on edge of berm.					ים עדם.	" CAMPIE	(foot):				
MAMPLING METHOD:   Spade and scoop											
DAYOC SAMPLES COLLECTED:         □ Equipment Blank (EB)         □ QA/QC Extra Volumes           □ Trip Blank (TB)         □ Duplicate of Water Sample ID         □ LON-SS05-SW08           WATER PARAMETERS           TIME         PH         CONDUCTIVITY         TEMPERATURE         SPECIFIC GRAVITY         TURBIDITY           16:30         8.3         750         3°C         3°C           MONITORING READINGS           TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         ————————————————————————————————————	DAMI LE DECOMI M	OT 47 OOTVIIVIL		VOILITAV	201 00111	ci oi ponde	d area on eage or .	201111.			
Trip Blank (TB)											
Ambient Condition Blank (AB)	QA/QC SAMPLES CO	DLLECTED:							ımes		
TIME         PH         CONDUCTIVITY         TEMPERATURE         SPECIFIC GRAVITY         TURBIDITY           16:30         8.3         750         3°C											
TIME	Ambient Condition	n Blank (AE	3) 🗆 A	leplicat	e of Soi	I Sample ID	)				
MONITORING READINGS   MONITORING READINGS					WA	TER PARAM	METERS	_			
MONITORING READINGS	TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY
TIME PID READING (ppm)	16:30	8.3		750			3°C				
TIME PID READING (ppm)											
TIME PID READING (ppm)											
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)           BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)           ✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANCHORAGE LAB           ANALYSES         ✓ CONTAINERS           WATER         SOIL           TPH         ✓ 1 liter           PCB         SVOC (8270)           PESTICIDES         1 liter           HVOC 8010         1 x 40 ml           VOC-BTEX 8020         ✓           TSS         250 ml           TOC         500 ml           4 oz	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon				MON	ITORING R	EADINGS				1803. IV
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)           ✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANALYSES         ANCHORAGE LAB           CONTAINERS         ANALYSES         ✓         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TOS         250 ml            TOS         250 ml             TOC         500 ml         4 oz							HANBY SCREEN	iing			
CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANCHORAGE LAB           ANALYSES         CONTAINERS         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TSS         250 ml            TOC         500 ml         4 oz	TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)				
CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANCHORAGE LAB           ANALYSES         CONTAINERS         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TSS         250 ml            TOC         500 ml         4 oz										}	
CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANCHORAGE LAB           ANALYSES         CONTAINERS         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TSS         250 ml            TOC         500 ml         4 oz			•								
✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANCHORAGE LAB           ANALYSES         ✓ CONTAINERS         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓ 1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TSS         250 ml            TOC         500 ml         4 oz	BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncor	ntained)
BARROW LAB       ANCHORAGE LAB         ANALYSES       ✓       ANCHORAGE LAB         CONTAINERS       ✓       CONTAINERS         WATER       SOIL       WATER       SOIL         TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PESTICIDES       FOTAL METALS       1 liter       8 oz         HVOC 8010       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ITSS       250 ml          TOC       500 ml       4 oz	The control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co			\$850(N3)(34)36)		and the same same than		CELL SIA KLASE		616, 388, 988. 1	
ANALYSES         ✓         CONTAINERS         ✓         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TSS         250 ml            TOC         500 ml         4 oz		<u> </u>	·····		CHECK	ANALYSES	REQUESTED				
WATER   SOIL   WATER   SOIL				BAR	ROW LA	.В			ANCHO	RAGE	LAB
TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz	ANALYSES	1		CON	ITAINER	S	ANALYSES	1	CON	TAINE	RS
PCB       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz			ν	VATER	ļ	SOIL			WATER		SOIL
PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         7         TDS         250 ml            TSS         250 ml             TOC         500 ml         4 oz	ТРН	1	1 liter			8 oz	VOC (8260)	****	3 x 40 ml		4 oz
HVOC 8010       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml          TOC       500 ml       4 oz	PCB						SVOC (8270)		1 liter		8 oz
VOC-BTEX 8020         Image: color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of	PESTICIDES						TOTAL METALS		1 liter		8 oz
TSS 250 ml TOC 500 ml 4 oz	HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
TOC 500 ml 4 oz	VOC-BTEX 8020						TDS		250 ml		
							TSS		250 ml		
TCLP 2 liters 2 x 8 oz							тос		500 ml		4 oz
							TCLP		[:] 2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-25-93</u>			SAMPLE ID: LON-SS05-SW08							
RADAR STATION: P	oint Lonely	<u> </u>	_ WE	EATHER	R: Misty,	frigid				
SITE/AOC: SS05 Die	esel Spill		_ FE	ET FRO			MAGI	VETIC HEADIN	1G: <u>N</u>	W
FIXED POINT:			<del></del>					·		
SAMPLE MATRIX:	☐ Soil (S)	□s	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: RT,										,
TIME SAMPLED: 16	6:45		DE	EPTH O	F SAMPLE	(feet):				
SAMPLE DESCRIPTION	ON/COMM	ENTS: N	lorthwe	est corn	er of pond	ed area on edge of	berm.			
SAMPLING METHOD	) Scoop			W						
QA/QC SAMPLES CO		. П E	auipm	ent Blar	nk (FB)	☐ QA/QC E>	tra Vol	umae		
☐ Trip Blank (TB)		<b>■</b> D	uplicat	te of Wa	ater Sample	D LON-SS05-SW	07			
☐ Ambient Conditio	on Blank (Al	B) 🗌 R	leplicat	te of So	il Sample II	)				
	Water Land Land				TER PARAI					
TIME	PH		CONI	DUCTIV	V44	TEMPERATURE	SPE	CIFIC GRAVIT	v   ¬	TURBIDITY
16:30	8.3		750			3°C	<del> </del>	.011 10 0.121	<del>`</del>	ONDIDATA
							+		+	
<u> </u>							<del> </del>		-	
	Same and Asserted Sections	Santana (1985)	Alexander Constitution	market her beautiful hard	onesterrollado (men	to the kine to Spreams (Figures)	er e er en en en en en en en en en en en en en	and the second second		
				MON	ITORING R	EADINGS				
						HANBY SCREET	VING		T	
TIME	PID READ	JING (ppi	m)	CG/LE	EL (%)	(standard/ppm)				
BG=Background;	BZ=Breath	ina Zone	 : BH=	Boreho	le: NR=No	Readings; HS=Hea	edsnac	s-Sample	(Lincor	rtained)
	ە ئەكىلەر بىرى كىشىلىنىدىكى بىلىكى باكى باك	<u> </u>	Car Vija — sad	savijisi 5.	out only the Williams	or the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of	шорис	c, o-oumple	(UHOCI	llaniou)
		Γ		CHECK	ANALYSES	REQUESTED	r			
			BARR	ROW LA	.B			ANCHO	RAGE	: LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		w	/ATER		SOIL			WATER	· · · · · · · · ·	SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ						SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ı	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS	1	250 ml		
						TSS	1	250 ml		
						TOC	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
										·

Preservation:

HVOC and VOC: HCI to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE OLD DUMP SITE (LF07)

DATE: <u>8-26-93</u>			SA	MPLE I	D: <u>LON-LF</u>	07-S01				
RADAR STATION: P		SAMPLE ID: LON-LF07-S01  Lonely WEATHER: Overcast, 36°F, breeze  Imp Site FEET FROM FIXED POINT: MAGNETIC HEADING: South								
					M FIXED P	OINT:	MAGN	IETIC HEADING	G: <u>S</u> c	outh
FIXED POINT:					<del></del>					
SAMPLE MATRIX:	Soil (S)		Sedime	nt (SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>JB</u>										
TIME SAMPLED: 16										
SAMPLE DESCRIPTION							wall of	berm. Sample	is mi	xed organic
debris, clayey silt, mi: SAMPLING METHOD		na smai	pebbl	e gravei,	, and is mo	DIST.				
QA/QC SAMPLES CO		. 🗇 [	Fauiom	ont Blan	yk (EB)	□ 04/00 Ev	tra Volu	ımac		<del></del>
Trip Blank (TB)	JLLLOTLD					ID	lia Voil	nue2		
☐ Ambient Conditio	n Blank (Al		-		•					
					TER PARAI					1
TIME	PH		CON	DUCTIV		TEMPERATURE	CDE	CIFIC GRAVITY	,   -	LIDBIDITY
TRIVIE	1	<del></del>	CON	DOCTIV	11 Y	TEMPERATURE	SPE	CIFIC GRAVITY	1	URBIDITY
							ļ .	· · · · · · · · · · · · · · · · · · ·		·····
							į			
		STATE OF STATE	entil Charles	MON	ITORING F	READINGS		Bella side da Alexandro	anar oliv	
						HANBY SCREEN	JING			
TIME	PID READ	DING (pp	om)	CG/LE	EL (%)	(standard/ppm)	11110			
			`							
									<u> </u>	
BG=Background;	BZ=Breath	iing Zon	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample (	uncor	itained)
			1	CHECK	ANALYSE	S REQUESTED				
			BARI	ROW LA	λB			ANCHO	RAGE	LAB
ANALYSES	1		CON	ITAINER	S	ANALYSES	1	CONT	TAINE	RS
		\	VATER	1	SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ	1					SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

MAGNETIC Lonely	DATE: <u>8-26-93</u>			s	AMPLE	ID: <u>LON-L</u> F	-07-S02				
SAMPLE MATRIX:	RADAR STATION: P	Point Lonely WEATHER: Overcast, 36°F, breeze									
SAMPLE MATRIX   Soli (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)							POINT:	_ MAG	NETIC HEADI	NG: _	SE
AMPLERS: _JB  IME SAMPLED: _15:47	FIXED POINT:										
IME SAMPLED: 15.47   DEPTH OF SAMPLE (feet):   AMPLED EDSCRIPTION/COMMENTS:   Collect from base of southeast end of wall of bermed area. Sample is mixed organic lebris, clavey silt, med-coarse sand with small pebble gravel, and is moist.   AMPLING METHOD: Auger or spade and secop.   Duplicate of Water Sample ID   Duplicate of Southeast end of wall of bermed area. Sample is mixed organic lebris, clavey silt, med-coarse sand with small pebble gravel, and is moist.		Soil (S)		edime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
AMPLED DESCRIPTION/COMMENTS: Collect from base of southeast end of wall of bermed area. Sample is mixed organic lebris, clavey slift, med-coarse sand with small pebble gravel, and is moist.  AMPLING METHOD: Auger or spade and scoop.  AMPLING METHOD: Auger or spade and scoop.  AMPLING METHOD: Auger or spade and scoop.  AMPLING METHOD: Auger or spade and scoop.  WATER PARAMETERS  Timp Blank (TB)	***************************************	5:47		ח	EPTH O	E CAMPLE	(foot):				
Series   Caleyey slit, med-coarse sand with small pebble gravel, and is moist.   SAMPLING METHOD:   Auger or spade and scoop.										o ic n	nivad organia
AMPLING METHOD: Auger or spade and scoop.  AMPLING METHOD: Auger or spade and scoop.  AMPLING METHOD: Auger or spade and scoop.  AMPLING METHOD: Auger or spade and scoop.  AMPLING METHOD: Auger or spade and scoop.  Try Blank (TB)								Delille	a area. Sampi	C 13 I	iixeu organic
ANALYSES						5.5.750	. 10 .110.00.				
Trip Blank (TB)	QA/QC SAMPLES CO	OLLECTED	:	auipm	nent Bla	nk (EB)	□ QA/QC Ex	tra Vol	umes		, ,
Ambient Condition Blank (AB)											
TIME		n Blank (Al									
MONITORING READINGS   HANBY SCREENING (standard/ppm)   Standard/ppm)   Stand						,					
MONITORING READINGS   HANBY SCREENING (standard/ppm)   Standard/ppm)   Stand	TIME	р⊔		CON		// / /	TEMPEDATURE	005	OIEIO ODAVIT		TI IDDIDITI
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Control of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of	TINE	FN		CON	IDUCTIV	/	TEMPERATURE	SPE	CIFIC GRAVII	Y	TURBIDITY
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Control of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of											
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Control of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of											
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Control of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of											
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         Image: Control of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of	and was a second second second second second second second second second second second second second second se	U. Princi Maritan San Sir	er de audi d'assessa de la compa	\$26500 Are 240 00	and the second					28 Martin (1900)	ole com the same real about the
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)            BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)           ANALYSES         CHECK ANALYSES REQUESTED           BARROW LAB         BARROW LAB         ANALYSES         ANALYSES         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         ✓         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TSS         250 ml            TOS         250 ml					ИОМ	ITORING F	READINGS				
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)	TIME	PID READ	DING (pp	m)	CG/LE	EL (%)		NING			
BARROW LAB   BARROW LAB   ANALYSES REQUESTED   ANCHORAGE LAB			V 1				(			+	
BARROW LAB   BARROW LAB   ANALYSES REQUESTED   ANCHORAGE LAB										+	
BARROW LAB   BARROW LAB   ANALYSES REQUESTED   ANCHORAGE LAB											
BARROW LAB       ANALYSES       ANCHORAGE LAB         ANALYSES       CONTAINERS         WATER       SOIL         TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       ✓       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       1 x 40 ml       4 oz       TSS       250 ml          TOS       500 ml       4 oz	BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	ie; NR=No	Readings; HS=Hea	adspac	e; S=Sample (	unco	ntained)
ANALYSES	The subsection of the Contraction  of additional desired desired and the second	Propresenta di Ale SI	talistijas televisios. J	CHECK	ANALYSE	S REQUESTED	De Arbander (1. 2) S. S.	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	eta ja operació	Constitution Constitution	
WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         ✓         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TOC         500 ml         4 oz				BAR	ROW LA	\B			ANCHO	RAG	E LAB
WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         ✓         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TOC         500 ml         4 oz	ANALVEE			CON	ITAINEE	18	ANALY050		CONI	TAINI	-DC
TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       ✓       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TDS       250 ml           TOC       500 ml       4 oz	AIVALIBLE					I	ANALYSES	-	CON	Aline	T
PCB       ✓       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml           TOC       500 ml       4 oz				/ATER					WATER		SOIL
PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml             TOC         500 ml         4 oz	TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml          TOC       500 ml       4 oz	PCB	1					SVOC (8270)		1 liter		8 oz
VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml             TOC         500 ml         4 oz	PESTICIDES						TOTAL METALS		1 liter		8 oz
TSS 250 ml TOC 500 ml 4 oz	HVOC 8010  ✓ 1 x 40 ml										
TOC 500 ml 4 oz	VOC-BTEX 8020	1		-			TDS		250 ml		
							TSS		250 ml		
TCLP 2 x 8 oz							TOC		500 ml		4 oz
							TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE I	D: LON-LF	F07-S03				
RADAR STATION: P	oint Lonely	SAMPLE ID: LON-LF07-S03  t Lonely WEATHER: Overcast, 36°F, breeze variable								
SITE/AOC: LF07 Old	Dump Site	e	FE	ET FRO				AGNETIC HEA	DING:	
FIXED POINT:										
SAMPLE MATRIX:	Soil (S)	□ 9	Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>JB</u>	· · · · · · · · · · · · · · · · · · ·									
TIME SAMPLED: 16	5:01		DE	EPTH O	F SAMPLE	(feet):				
SAMPLE DESCRIPTI	ON/COMM	ENTS: _	Collect	from ap	proximate	lateral mid point at l	oase of	bermed area.		
SAMPLING METHOD	V. Coode e									
SAMPLING METHOD				51	. (55)					
QA/QC SAMPLES Co										
Ambient Condition	n Blank (Al	B) [] E	Poplica	to of So	il Cample	: ID				
Ambient Conditio	n blank (A	D) [] :	Teplica							
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ   -	TURBIDITY
							1		+-	
	<del></del>						<del> </del>			
	graph for all trade, the highest real	and the said line of the	kilari kadalar	este (all controls	The second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of th				Property and the second second second second second second second second second second second second second se	Paranto Antonio Marena III
				MON	ITORING R	EADINGS			entered with a contrary	manageological analysis of
						HANBY SCREET	JING			
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)	VIIVO			
								-		
									l	
BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR≕No	Readings; HS=Hea	adspac	e; S=Sample i	(uncor	ntained)
			1	CHECK	ANALYSES	S REQUESTED			and the second second	of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
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				<del></del>		-				
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		v	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB	1					SVOC (8270)	1	1 liter	******	8 oz
PESTICIDES						TOTAL METALS	1	1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS	1	1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml	=	
			**		71.	тос	1	500 ml		4 oz
						TCLP	-			
						TOLI		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	AMPLE I	D: <u>LON-L</u> F	707-S04					
RADAR STATION: Point Lonely WEATHER: Overcast, 30°F, variable breezy  SITE/AOC: LF07 Old Dump Site FEET FROM FIXED POINT: MAGNETIC HEADING: NE											
SITE/AOC: LF07 OIC	Dump Site	<u>e</u>	FE	EET FRO	OM FIXED F	POINT:	_ MAG	NETIC HEADING	G: NE		
FIXED POINT:											
SAMPLE MATRIX: <b>II</b> SAMPLERS: JB				ent (SD)		Surface Water (SW)		Groundwater (C	àW)		
TIME SAMPLED: <u>16</u>			DI		E CAMPIE	(foot).					
SAMPLE DESCRIPTION									and area between		
two stained areas.		LIVIO. <u>0</u>	Ollecte	u nom	iortineast er	id at base of beilli.	JUIIBULE	ed in Silgnily Stall	ieu area betweer		
SAMPLING METHOD	): Spade a	nd scool	)								
QA/QC SAMPLES CO				nent Blai	nk (FB)	□ OA/OC Ex	tra Vol	umes			
						e ID					
☐ Ambient Conditio	n Blank (Al	B) 🗆 R	eplica	te of So	il Sample II	)					
					TER PARA				10.400		
TIME	DU		001		<del> </del>	T	Τ				
TIME	PH		CON	IDUCTIV	/II Y	TEMPERATURE	SPE	CIFIC GRAVITY	TURBIDITY		
Chapter College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College College 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1				MON	IITORING F	READINGS	···	T			
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING				
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample (u	ncontained)		
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			BAR	ROW LA	λB			ANCHOR	AGE LAB		
ANALYSES	1		CON	ITAINER	IS	ANALYSES	1	CONTA	AINERS		
		N	/ATER		SOIL			WATER	SOIL		
TPH	1	1 liter			8 oz	VOC (8260)	3400	3 x 40 ml	4 oz		
PCB	1					SVOC (8270)		1 liter	8 oz		
PESTICIDES						TOTAL METALS		1 liter	8 oz		
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
						TSS		250 ml			
						тос		500 ml	4 oz		
						TCLP		2 liters	2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	AMPLE I	D: LON-LF	07-S05					
RADAR STATION: P	Point Lonely WEATHER: Overcast, 36°F, breaze  Ild Dump Site FEET FROM FIXED POINT: MAGNETIC HEADING:										
SITE/AOC: LF07 Old	Dump Site	9	FE	EET FRO	OM FIXED F			GNETIC HEAL	DING:		
FIXED POINT:											
SAMPLE MATRIX:   SAMPLERS: JB	Soil (S)	□s	Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
TIME SAMPLED: <u>15</u>			DF	=PTH O	E CAMPLE	(fact): 1 to 3 inches					
SAMPLE DESCRIPTION								rface			
								maco.			
SAMPLING METHOD	: Two sco	ops									
QA/QC SAMPLES CO	OLLECTED:	: 🗆 E	Equipm	nent Blar	nk (EB)	☐ QA/QC Ex	tra Vol	umes			
☐ Trip Blank (TB)			)uplica	te of Wa	ater Sample	e ID					
☐ Ambient Conditio	n Blank (Af	3) 🗆 F	Replica	te of So	il Sample II	D					
				WA	TER PARAI	METERS					
TIME	PH		CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y 7	URBIDITY	
				·	ATT. 12			***************************************			
	<del>                                     </del>				****		1		+		
	<del></del>						1		-		
	orangas salaka ja dasa d	of and active Eight 1.4504.	Later French Marke	Sign of the Parties and the	Live Wandshield Co. E.		The Checken	ing upon in the branch space of the	es de la come	areanna an an an an an an an an an an an an	
	# 4			MON	IITORING F	READINGS					
						HANBY SCREEN	NING				
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)	1.4				
BG=Background:	BZ=Breath	ina Zone	 e: BH=	-Boreho	le: NR-No	Readings; HS=Hea	denace	s: S-Sample (	uncor	otainod)	
	Services I. Des protector Co. S. T		Acres de La	Borono		ricadings, rio_rice	aspaci	s, o-bample (	uncoi	itali led)	
<del></del>				CHECK	ANALYSE	S REQUESTED					
			BAR	ROW LA	√B			ANCHO	RAGE	LAB	
ANALYSES			CON	ITAINER		ANALYSES	1	CON	TAINE	RS	
		v	VATER	<del></del>	SOIL	7117121020		WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ	1	,				SVOC (8270)					
PESTICIDES						TOTAL METALS		1 liter 1 liter		8 oz 8 oz	
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1	1 7 40			4 02						
100 BTEX 0020						TDS		250 ml			
		-				TSS		250 ml			
						тос		500 mi		4 oz	
	!			—- ···		TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			SA	MPLE I	D: <u>LON-L</u> F	07-S06				
RADAR STATION: P	oint Lonely		WI	EATHER	R: <u>Overcas</u>	t, 36°F, breeze				
SITE/AOC: LF07 OIC						POINT:	_ MAC	SNETIC HEAD	ING: _	N
FIXED POINT:		···								
SAMPLE MATRIX: SAMPLERS: JB				nt (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 15	5:25				ECAMBLE	(foot):				
SAMPLE DESCRIPTION						. ,		m of stain (1')	Com	nocited from
2" to 1' deep. This is							<u>o bollo</u>	in or stain (1)	. COM	posited from
SAMPLING METHOD					.0.1 111 00110	Onorto.				
QA/QC SAMPLES C					nk (FB)	□ QA/QC Ex	tra Vol	umes		
						D				
☐ Ambient Condition										
					TER PARA			Tel Para		
			T			1	T			
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	TY T	TURBIDITY
	<del></del>						+		_	
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	<del></del>			MON	ITORING F	READINGS		-		·
TIME DID DEADING (asset						HANBY SCREEN	NING			
TIME	PID READ	PID READING (ppm)			EL (%)	(standard/ppm)	·			
		·								
BG=Background;	BZ=Breath	ing Zone	=: BH=	:Boreho	le: NR=No	Readings; HS=Hea	adspac	e: S=Sample	(uncoi	ntained)
l Chamile Landson	in constant		Na Casta da Asia	2-3-8-800 ESEP	551 <b>5</b> 1551 (1565-54)		(maintaine in		1.04848668	
						S REQUESTED				
			BARI	ROW LA		-		ANCHO	JRAGE	- LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	ITAINE	RS
		v	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 mi		4 oz
РСВ	1					SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	HVOC 8010				4 oz	DISS METALS		1 liter		
VOC-BTEX 8020 ✓						TDS		250 ml		
					TSS		250 ml			
			u, · .		тос		500 ml		4 oz	
						TCLP		² liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: 8-26-93			SA	MPLE II	D: LON-LE	07-S07				
RADAR STATION: P										
SITE/AOC: LF07 Old				ET FRO	M FIXED F	POINT:	MAGN	ETIC HEADIN	G: <u>So</u>	uth
FIXED POINT:								****		
SAMPLE MATRIX:	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS:JB										
TIME SAMPLED: <u>15</u> SAMPLE DESCRIPTION										
immediately beneath					Die al Souli	i side entrance to dui	np. wii	xeu Sanu anu s	man p	eoble grave
SAMPLING METHOD			ni tan	<u> </u>		, , , , , , , , , , , , , , , , , , ,				
QA/QC SAMPLES CO	DLLECTED	: 🗆 E	quipm	ent Blar	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)						e ID				
☐ Ambient Conditio	n Blank (Af	3) 🗆 R	Replica	te of So	il Sample II	O				
		, <u></u>		WA ⁻	TER PARA	METERS				
TIME	PH		CON	DUCTIV	ΊΤΥ	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY
							1			
							1			
										•=
	100 100 100 100 100 100 100 100 100 100	agencerit.	NEEDS ENGAGE	Friedrich (2006 auf Leiter)	en de estados en estados en estados en estados en estados en en estados en entre en entre en entre en entre en	na. Ele el ser el ser el ser el ser el ser el ser el ser el ser el ser el ser el ser el ser el ser el ser el s	CONTRACTOR CONTRACTOR	ngaya	provide the second of	
				MON	ITORING F	READINGS				
					HANBY SCREEN	NING				
TIME	PID READING (ppm)			CG/LE	L (%)	(standard/ppm)				
BG=Background:	BZ=Breath	ina Zone	e: BH=	-Boreho	le: NR=No	Readings; HS=Hea	adspac	e: S=Sample	(uncor	ntained)
			G125 ( ) 2.67();	om Sopatheric i.e.		Control of the Control of the State of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control			***********	Alexander State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State St
				CHECK	ANALYSE	S REQUESTED		· · · · · · · · · · · · · · · · · · ·		
			BAR	ROW LA	λB			ANCHO	RAGE	LAB
ANALYSES	1		CON	ITAINER	S	ANALYSES	1	CON	TAINE	RS
		V	VATER	R	SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB	1					SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	J			i		TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
		ļ				TCLP		2 liters		2 x 8 oz
					<u> </u>					

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>			S	AMPLE !	D: LON-LE	-07-S08				
RADAR STATION: Po	oint Lonely		w	EATHER	R: <u>Overcas</u>	t, 36°F, breeze				
SITE/AOC: LF07 Old	Dump Site	9	FE	EET FRO	OM FIXED F	POINT:	MA	AGNETIC HEAD	ING:	
FIXED POINT:										
SAMPLE MATRIX:	Soil (S)		Sedime	ent (SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>JB</u> TIME SAMPLED: <u>16</u>	.50		D.	-DTU O	E OANADI E	/f = - 1)				
SAMPLE DESCRIPTION								horm Comple		
debris, clayey silt, mix							wall Oi	berm. Sample	IS IT	iixea organic
SAMPLING METHOD						JISt.				
QA/QC SAMPLES CO						Π 04/0C E ₂	tra Val	umaa	-	
					` '	e ID	lia voi	umes		
☐ Ambient Condition										
The second condition	T DIGITIC (71	-/ -	icplica	16 01 00	ii Jampie ii	D_E014-E1-07-301				
	<u> </u>		,	WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	/   ₁	TURBIDITY
									$\top$	
				******			<del>                                     </del>		+	
	<b></b>			<del></del>					_	
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						HANBY SCREEN	ling			
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)				
					4					
BG=Background; E	3Z=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (ı	ncor	ntained)
Antonio antonio de Porte de Mario de Mario de Antonio de Antonio de Antonio de Antonio de Antonio de Antonio d		op tendelt, eko edis e S	<i>,</i>	CHECK	ANALYSE	S REQUESTED	10 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 m	Transfer (Market Const.)	######################################	
		APPARA		ROW LA				ANCHO	RAGE	LAB
					<del></del>					
ANALYSES			CON	TAINEF	S	ANALYSES	1	CONT	AINE	RS
		٧	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB	1					SVOC (8270)		1 liter		8 oz
PESTICIDES				- N		TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020					TDS		250 ml			
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to  $4^{\circ}C$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

 $Bullen=BUL; \ Oliktok=OLI; \ Barter=BTR; \ Lonely=LON; \ Barrow=BRW; \ Wainwright=WRT; \ Lay=LAY; \ Lisburne=LIS \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ Annex \ A$ 

DATE: <u>9-5-93</u>																
RADAR STATION: P	oint Lonely		w	EATHER	R: Sunny	, warm, 55°F										
SITE/AOC: LF07 Old	Dump Sit	e	FE	ET FRO	M FIXED F	POINT: <u>60</u>	_ MAC	ENETIC HEADII	NG:	South						
FIXED POINT: <u>In d</u>	itch bound	ary south	side	of landfi	II, 60 feet w	est of LF07-S01 (60	feet up	drainage)								
SAMPLE MATRIX: 📱	Soil (S)		edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)							
SAMPLERS: <u>PG</u> ,																
TIME SAMPLED: 15						(feet): 0 to 0.5										
SAMPLE DESCRIPTION	ON/COMM	ENTS: [	Dark gr	ay clay	underlying	organic rich tundra	mat. S	Sample collecte	d at i	nterface.						
CAMPLING METHOD	. Coode a															
SAMPLING METHOD				ant Dia	-I. (CD)											
QA/QC SAMPLES Co	JLLEUTEL															
☐ Ambient Conditio	n Blank (A	8) U E	ouplica Benlica	te of So	il Sample II	e ID										
	ii biain (A	o, 🗆 i	replica													
				WA	TER PARA	METERS	,									
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVITY	1	URBIDITY						
MONITORING READINGS																
	HANBY SCREENING															
TIME	PID REAL	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)										
									$\top$							
PC - Poolsoround	D7 Brooth			<u> </u>	- ND N			L								
BG=Background;	bZ≡brea⊪	iing zone	e; BH=	Boreno	ie; NK=No	Readings; HS=Hea	adspace	e; S=Sample (ı	ıncor	ntained)						
			1	CHECK	ANALYSE	S REQUESTED										
			BARI	ROW LA	λB			ANCHO	RAGE	LAB						
48417050			CON	TAINIEE												
ANALYSES	/		CON	TAINEF	15	ANALYSES	/	CONT	AINE	HS						
		V	VATER		SOIL			WATER		SOIL						
TPH	<b>✓</b>	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz						
РСВ						SVOC (8270)		1 liter		8 oz						
PESTICIDES						TOTAL METALS		1 liter		8 oz						
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter	······································							
VOC-BTEX 8020		1				TDS		250 ml	·····							
				.1		TSS		250 ml								
				<del></del>		TOC		500 ml		4 oz						
									·····	t						
						TCLP		2 liters		2 x 8 oz						
L																

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-5-93</u>	TE: <u>9-5-93</u> SAMPLE ID: <u>LON-LF07-2S09-1</u>										
RADAR STATION: P	oint Lonely		WE	EATHER	: Partly o	loudy, calm, cool 4	5 to 50	°F			
SITE/AOC: LF07 Old	Dump Site	)	FE	ET FRO	M FIXED P	OINT: <u>10</u>	_ MAG	NETIC HEAD	ING: _		
FIXED POINT: Sam	ple located	10 feet	down	drainage	e from LF0	7-SW02					
SAMPLE MATRIX: 📕	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: PG,											
TIME SAMPLED: 15	5:50		DE	PTH OF	SAMPLE	(feet): 1					
SAMPLE DESCRIPTION	ON/COMME	ENTS: <u>T</u>	undra	mat - o	rganic rich	(roots). Intermingle	d with s	sands and gra	vel fill	material.	
				· · · · · · · · · · · · · · · · · · ·							
SAMPLING METHOD											
QA/QC SAMPLES CO											
☐ Trip Blank (TB)						ID					
☐ Ambient Conditio	n Blank (Af	3) 🗌 R	eplicat	e of So	il Sample I	)					
				WA ⁻	TER PARA	METERS					
TIME	PH		CON	DUCTIV	ΊΤΥ	TEMPERATURE	SPE	CIFIC GRAVIT	ү   т	URBIDITY	
	-										
							<del>                                     </del>		_		
	ļ										
	MONITORING READINGS										
			l	101011	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	T				· · · · · · · · · · · · · · · · · · ·	
TIME	PID READ	ING (nn	m)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	IING				
	110112/10	те (рр	,	00,22	(/0)	(otandara/ppin)					
									_		
BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncor	ntained)	
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				CHECK	ANALYSES	S REQUESTED		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
			BAR	ROW LA	.В			ANCHO	DRAGE	LAB	
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS	
		٧	VATER		SOIL			WATER	•	SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010	8010 1 x 40 ml					DISS METALS		1 liter			
VOC-BTEX 8020	VOC-BTEX 8020					TDS		250 ml			
			TSS		250 ml						
						тос		500 mt		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>8-27-93</u> SAMPLE ID: <u>LON-LF07-SW01</u>									
RADAR STATION: PO	oint Lonely		WEATHER	R: <u>Cold, W</u>	indy				
SITE/AOC: LF07 Old	Dump Site	9	FEET FRO	OM FIXED F	POINT:	MAG	NETIC HEADI	NG: <u>S</u>	outh
FIXED POINT:									
SAMPLE MATRIX:	] Soil (S)	☐ Sedii	ment (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: JB, RT									
TIME SAMPLED: 14	:14		DEPTH O	F SAMPLE	(feet):				
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>Upg</u> i	adient por	nded area a	t south side of entra	nce to	dump. Collec	ted wi	th LF07-S01
0.11(5)(1)(0.1457)(0.5)									
SAMPLING METHOD									
QA/QC SAMPLES CO									
☐ Trip Blank (TB)	n Blank (Al	Dupi Dupi □ 'C	cate of Wa	ater Sample	) ID				
Ambient Condition	II DIAIIK (AL	s) 🗆 Repli	cate of Sc	Sample II		-			
	<u>-</u>	1	WA	TER PARA	METERS				
TIME	PH	C	DNDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   7	URBIDITY
							<del>-</del>		
	<u> </u>	<del>-   .</del>				<del>                                     </del>			
	-		w			<del> </del>	W		
	TWA M. WINGS		200 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C	College Service					
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		<del></del>			HANBY SCREEN	JING			
TIME	PID READ	ING (ppm)	CG/LE	EL (%)	(standard/ppm)	VIIVO			
						····		+-	
1									
BG=Background; 8	BZ=Breath	ing Zone; B	i=Boreho	ole; NR=No	Readings; HS=Hea	adspace	e; S=Sample (	uncor	ntained)
			✓ CHECK	ANALYSE	S REQUESTED	oral page a graduation.			
		R/	RROW LA			!	ANCLIO		
				10			ANCHO	HAGE	: LAB
ANALYSES	1	C	DNTAINEF	RS	ANALYSES	1	CON	TAINE	RS
		WAT	ER	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ	1				SVOC (8270)		1 liter	·	8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1			132	TDS		250 ml		
			1		TSS				
				TOC	ļ <u>.                                    </u>	250 ml		4	
						500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-26-93</u>		SA	MPLE II	D: <u>LON-LF</u>	07-SW02					
RADAR STATION: <u>Po</u>										
SITE/AOC: <u>LF07 Old</u>			ET FRO	M FIXED P	OINT:	MA	GNETIC HEAD	DING:		
FIXED POINT:	<del></del>			····						
SAMPLE MATRIX: [ SAMPLERS: <u>JB, RT</u>			. ,							
SAMPLERS: <u>JB, RT</u> TIME SAMPLED: <u>16</u>	6:48	Di	EPTH OF	SAMPLE	(feet):					
SAMPLE DESCRIPTION										
SAMPLING METHOD	: Disposat	ole scoop								
QA/QC SAMPLES CO	DLLECTED:									
☐ Trip Blank (TB)					ID					
☐ Ambient Condition	n Blank (A	3) 🗌 Replica	te of So	il Sample II	)					
			WA [.]	TER PARA	METERS					
TIME	PH	CON	CONDUCTIVITY TEMPERAT			SPE	CIFIC GRAVIT	Y   T	URBIDITY	
						1				
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second 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MONITORING READINGS										
TIME	PID READ	DING (ppm)	CG/LEL (%)		HANBY SCREEN (standard/ppm)	IING				
BG=Background;	BZ=Breath	ing Zone; BH=	=Boreho	le; NR=No	Readings; HS=Hea	dspac	e; S=Sample (	uncor	ntained)	
	Per Mariana Sarahan	✓	CHECK	ANALYSES	S REQUESTED	500 2.42 E 27 B				
		BAR	ROW LA	λB			ANCHO	RAGE	LAB	
ANALYSES	1	CON	ITAINER	ıs	ANALYSES	1	CON	TAINE	 RS	
		WATER	?	SOIL		,	WATER		SOIL	
ТРН	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
РСВ	1				SVOC (8270)	1	1 liter		8 oz	
PESTICIDES	1				TOTAL METALS	1	1 liter		8 oz	
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS	1	1 liter			
VOC-BTEX 8020	VOC-BTEX 8020 ✓				TDS	1	250 ml			
					TSS	1	250 ml			
					тос	1	500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE GARAGE (SS09)

RADAR STATION: Point Lonely WEATHER: Cloudy, winds calm  SITE/AOC: SS09 Garage FEET FROM FIXED POINT: MAGNETIC HEADING: NW  FIXED POINT: Sample was collected from inside the garage at the holes in west posts northwest hole.  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: ML, DP  TIME SAMPLED: 11:00 DEPTH OF SAMPLE (feet): 1  SAMPLE DESCRIPTION/COMMENTS: Collect sample from beneath the northwest floor drain.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID								
SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: ML, DP  TIME SAMPLED: 11:00 DEPTH OF SAMPLE (feet): 1  SAMPLE DESCRIPTION/COMMENTS: Collect sample from beneath the northwest floor drain.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID								
SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: ML, DP  TIME SAMPLED: 11:00 DEPTH OF SAMPLE (feet): 1  SAMPLE DESCRIPTION/COMMENTS: Collect sample from beneath the northwest floor drain.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID								
SAMPLERS:ML, DP  TIME SAMPLED:11:00								
TIME SAMPLED: 11:00 DEPTH OF SAMPLE (feet): 1  SAMPLE DESCRIPTION/COMMENTS: Collect sample from beneath the northwest floor drain.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID								
SAMPLE DESCRIPTION/COMMENTS: Collect sample from beneath the northwest floor drain.  SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID								
SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED:								
QA/QC SAMPLES COLLECTED:								
QA/QC SAMPLES COLLECTED:								
☐ Trip Blank (TB) ☐ Duplicate of Water Sample ID								
L. L. Ambient Condition Blank (AR). E. L. Bobliosto of Soil Cample ID								
Ambient Condition Blank (AB) Replicate of Soil Sample ID								
WATER PARAMETERS								
TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDI								
MONITORING READINGS								
HANBY SCREENING								
TIME PID READING (ppm) CG/LEL (%) (standard/ppm)								
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)								
✓ CHECK ANALYSES REQUESTED								
BARROW LAB ANCHORAGE LAB								
ANALYSES / CONTAINERS ANALYSES / CONTAINERS								
WATER SOIL WATER SOI								
TPH  ✓ 1 liter  8 oz								
PCB SVOC (8270) 1 liter 8 oz								
PESTICIDES TOTAL METALS 1 liter 8 oz								
HVOC 8010  ✓ 1 x 40 ml								
VOC-BTEX 8020 ✓ TDS 250 ml								
TSS 250 ml								
TOC 500 ml 4 oz								

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

RADAR STATION: Point Lonely WEATHER: Cloudy, winds calm STE/AOC: SS09 Garage FEET FROM FIXED POINT: MAGNETIC HEADING: SW FIXED POINT: Inside garage from the middle hole on the south side.  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: DP, ML  TIME SAMPLED: 11.05 DEPTH OF SAMPLE (teet): 1  SAMPLED: 11.05 DEPTH OF SAMPLE (teet): 1  SAMPLING METHOD: Spade and scoop  QAOC SAMPLES COLLECTED: Sequipment Blank (EB) QA/QC Extra Volumes  Time SAMPLES COLLECTED: Supplement Blank (EB) QA/QC Extra Volumes  Time Blank (TB) Duplicate of Water Sample ID  Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (opm) CG/LEL (%) (standard)ppm)  BG=Background: BZ=Breathing Zone: BH=Borehole; NR=No Readings: HS=Headspace; S=Sample (uncontained)  / CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES / CONTAINERS  ANALYSES / CONTAINERS  ANALYSES / CONTAINERS  ANALYSES / CONTAINERS  WATER SOIL  TPH / 1 liter 8 oz VOC (8260) 3 x 40 ml 4 oz SVOC (8270) 1 liter 8 oz TOTAL METALS 1 liter	DATE: <u>8-22-93</u>			SA	MPLE I	D: <u>LON-SS</u>	S09-S02-1				
FIXED POINT:Inside qarage from the middle hole on the south side.  SAMPLERS:DP, ML.  TIME SAMPLED:11:05 DEPTH OF SAMPLE (leet):1  SAMPLED:11:05 DEPTH OF SAMPLE (leet):1  SAMPLED:11:05 DEPTH OF SAMPLE (leet):1  SAMPLED:11:05 DEPTH OF SAMPLE (leet):1  SAMPLED:11:05 DEPTH OF SAMPLE (leet):1  SAMPLING METHOD:Spade and scoop  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Tip Blank (TB) Duplicate of Water Sample ID  Ambient Condition Blank (AB) Replicate of Soil Sample ID  MATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) (standard/ppm)  MONITORING READINGS  TIME PID READING (ppm)	RADAR STATION: <u>P</u>	oint Lonely		WE	ATHEF	R: <u>Cloudy</u>	, winds calm				
SAMPLE MATRIX:   Soil (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)								MAG	NETIC HEADING	3: <u>S'</u>	<u>w</u>
SAMPLERS: DP, ML TIME SAMPLED: 11.05 DEPTH OF SAMPLE (feet): 1  SAMPLED ESCRIPTION/COMMENTS: Collect sample from the southwest floor drain.  SAMPLING METHOD: Spade and scoop OA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes Trip Blank (TB) Quplicate of Water Sample ID Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITY  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) (standard/ppm)  BG=Background: BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  V CHECK ANALYSES REQUESTED  BARROW LAB ANALYSES V CONTAINERS ANALYSES V CONTAINERS WATER SOIL WATER SOIL  TPH V 1 liter 8 oz VOC (8260) 3 x 40 ml 4 oz SVOC (8270) 1 liter 8 oz PESTICIDES HVOC 8010 V 1 x 40 ml 4 oz DISS METALS 1 liter TDS 250 ml TDS 250 ml	FIXED POINT: Insid	de garage f	rom the r	niddle	hole or	n the south	side.				
TIME PID READING (ppm)  BG=Background: BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  J CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  ANALYSES  WATER  SOIL  ANALYSES  ANALYSES  WATER  SAMPLED: 11.05  DEPITH OF SAMPLE (feet): 1  GAMPLE (feet): 1  GAMPLES COLLECTED: Equipment Blank (EB)  Duplicate of Water Sample ID  WATER PARAMETERS  TIME  PH  CONDUCTIVITY  TEMPERATURE  SPECIFIC GRAVITY  TURBIDITY  MONITORING READINGS  HANBY SCREENING (standard/ppm)  BG=Background: BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  J CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES  WATER  SOIL  WATER  SOIL  WATER  SOIL  TPH  J 1 liter  B oz  VOC (8260)  3 x 40 ml  4 oz  PCSB  J 1 x 40 ml  4 oz  DISS METALS  TDS  250 ml  TDS  250 ml  TDS  250 ml  TTDS  DAVIOC BOTO  TOSA  TDS  TDS  DAVIOC BOTO  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOSA  TOS							Surface Water (SW)		Groundwater (C	(WE	
TIME PID READING (ppm)  BG=Background: BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  ANALYSES V CONTAINERS  ANALYSES V CONTAINERS  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  WATER SOIL  TOTAL METALS 1 litter  TDS 250 ml  TDS 250 ml  TDS 250 ml	SAMPLERS: <u>DP</u> ,	ML									
SAMPLING METHOD: Spade and scoop  QA/QC SAMPLES COLLECTED:	TIME SAMPLED: <u>1</u> 1	1:05		DE	PTH O						
OA/QC SAMPLES COLLECTED:         ☐ Equipment Blank (EB)         ☐ QA/QC Extra Volumes           ☐ Trip Blank (TB)         ☐ Duplicate of Water Sample ID           ☐ Ambient Condition Blank (AB)         ☐ Replicate of Soil Sample ID           WATER PARAMETERS           TIME         PH         CONDUCTIVITY         TEMPERATURE         SPECIFIC GRAVITY         TURBIDITY           TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)	SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>C</u>	ollect	sample	from the s	outhwest floor drain.				
☐ Trip Blank (TB)         ☐ Duplicate of Water Sample ID           Ambient Condition Blank (AB)         ☐ Replicate of Soil Sample ID           WATER PARAMETERS           TIME         PH         CONDUCTIVITY         TEMPERATURE         SPECIFIC GRAVITY         TURBIDITY           MONITORING READINGS           TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)         HANBY SCREENING (standard/ppm)         WATER SOIL         <	SAMPLING METHOD	): Spade a	nd scoop	)							
Ambient Condition Blank (AB)	QA/QC SAMPLES C	OLLECTED	: 🗆 E	quipm	ent Blar	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
Ambient Condition Blank (AB)	☐ Trip Blank (TB)			uplicat	e of Wa	ater Sample	) ID				
TIME	☐ Ambient Conditio	n Blank (Al									
MONITORING READINGS					WA	TER PARAI	METERS				
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)           BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)	TIME	PH		CONI	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVITY	Т	URBIDITY
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)           BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)					TEINI ETWOOTE			†		1	110.1001
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)           BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)											· · · · · · · · · · · · · · · · · · ·
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)           BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)					****			-		+	· · · · · · · · · · · · · · · · · · ·
TIME         PID READING (ppm)         CG/LEL (%)         HANBY SCREENING (standard/ppm)           BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)           J CHECK ANALYSES REQUESTED           BARROW LAB         ANCHORAGE LAB           ANALYSES         CONTAINERS           WATER         SOIL           WATER         SOIL           TPH         J 1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         J 1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         J TDS         250 ml	in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	962 MARINE TO 12 12 12 12 12 12 12 12 12 12 12 12 12						100000000000000000000000000000000000000			
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)           BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)					MON	ITORING F	READINGS				
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)           ✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANCHORAGE LAB           ANALYSES         ✓ CONTAINERS         ANALYSES         ✓ CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓ 1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓ 1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml	TIME	PID REAL	)iNG (nor	m)	CG/LE	-I (%)		NING			
CHECK ANALYSES REQUESTED           BARROW LAB         ANCHORAGE LAB           ANALYSES         CONTAINERS           WATER         SOIL           TPH         ✓           PCB         ✓           PESTICIDES         TOTAL METALS           HVOC 8010         ✓           VOC-BTEX 8020         ✓           TOS         250 ml           TSS         250 ml			,,,,с. (рр.			(/~)	(dtarraara, ppiii)			+	
✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANCHORAGE LAB           ANALYSES         ✓ CONTAINERS           WATER         SOIL           TPH         ✓ 1 liter           PCB         ✓           PESTICIDES         TOTAL METALS           HVOC 8010         ✓           VOC-BTEX 8020         ✓           TOTAL METALS         1 liter           TDS         250 ml           TTSS         250 ml		711-21	···			••				+-	
✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANCHORAGE LAB           ANALYSES         ✓ CONTAINERS           WATER         SOIL           TPH         ✓ 1 liter           PCB         ✓           PESTICIDES         TOTAL METALS           HVOC 8010         ✓           VOC-BTEX 8020         ✓           TOTAL METALS         1 liter           TDS         250 ml           TTSS         250 ml	DO Danisaria	DZ Dunash	·	. DU	D l	A. N.D. M.	Describerant 10 Head	<del></del>		Т	A = 1 = = = 10
BARROW LAB       ANALYSES       ANCHORAGE LAB         CONTAINERS         WATER       SOIL       WATER       SOIL         TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       ✓       ✓       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TSS       250 ml	BG=Background;	BZ=Breath	ing Zone	; BH=	Boreno	ie; NH=No	Readings; HS=Hea	adspac	e; S=Sample (u	ncon	itained)
ANALYSES         ✓         CONTAINERS         ✓         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         ✓         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TDS         250 ml				1	CHECK	ANALYSE	S REQUESTED				
WATER         SOIL         WATER         SOIL           TPH         ✓         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         ✓         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml				BARF	ROW LA	λB			ANCHOR	AGE	LAB
TPH       ✓       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PCB       ✓       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml	ANALYSES	1		CON	TAINER	S	ANALYSES	1	CONTA	AINE	RS
PCB       ✓       SVOC (8270)       1 liter       8 oz         PESTICIDES       TOTAL METALS       1 liter       8 oz         HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml			w	ATER		SOIL			WATER		SOIL
PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml	TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TSS       250 ml	РСВ	1					SVOC (8270)		1 liter		8 oz
VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml	PESTICIDES						TOTAL METALS		1 liter		8 oz
TSS 250 ml	HVOC 8010	1	1 x 40	m!		4 oz	DISS METALS		1 liter		
	VOC-BTEX 8020 ✓						TDS		250 ml		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							TSS		250 ml		
10C 500 ml 4 oz							тос		500 ml		4 oz
TCLP 2 liters 2 x 8 oz							TCLP		2 liters		2 x 8 oz

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>8-22-93</u>	ATE: <u>8-22-93</u> SAMPLE ID: <u>LON-SS09-S03-1</u>									
RADAR STATION: P	oint Lonely		WE	ATHER	i: Cloudy	/, winds calm				
SITE/AOC: SS09 Ga	arage		FE	ET FRO	M FIXED F	POINT:	_ MAG	SNETIC HEADI	NG: _	NE
FIXED POINT: Insid	de garage f	rom the	northea	ist hole.						
SAMPLE MATRIX:	Soil (S)	□s	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML, DI										
TIME SAMPLED: 11										
SAMPLE DESCRIPTI	ON/COMMI	ENTS: <u>C</u>	Collect s	samples	s from ben	eath the northeast fl	<u>oor dra</u>	in.		
SAMPLING METHOD	). Spade a	nd scoor							<del></del>	
QA/QC SAMPLES C				ont Blar	ok (ER)		dro Mal		-	
Trip Blank (TB)	OLLLO1ED.					e ID				
☐ Ambient Conditio	on Blank (Al	B) □ R	eplicate	e of Soi	il Sample II	, וס ה				
That	Tau				TER PARAI		1			:
TIME	PH		CONL	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   1	TURBIDITY
							<u> </u>			
MONITORING READINGS										
TIME	טוט טבער	SINO (nn		20/15	. (21)	HANBY SCREEN	NING			
TIIVIE	PID READ	NNG (pp	m)	CG/LE	.L (%)	(standard/ppm)				
BG=Background;	BZ=Breath	ing Zone	; BH=f	 Borehol	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample (	uncor	ntained)
	kyst ambu pittar i takarar teta.		kirken li sed 198	Magnate VIII	y praddista are, me to	Company of the second second second	No year and his begge			
			· · · · · · · · · · · · · · · · · · ·			S REQUESTED		****		
			BARR	IOW LA	В	]		ANCHO	RAGE	: LAB
ANALYSES	1	<u> </u>	CONT	TAINER	S	ANALYSES	1	CON	ΓAINE	RS
		V	<b>/</b> ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 mi		4 oz
PCB	1					SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml	<del></del>	
						TSS		250 ml		
						TOC		500 ml		4 oz
						TCLP		2 liters		<del> </del>
						TOLI		ZIILEIS		2 x 8 oz
								i		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-22-93</u>	ATE: <u>8-22-93</u> SAMPLE ID: <u>LON-SS09-S05</u>									
RADAR STATION: Po										
SITE/AOC: SS09 Gar						'OINT:	MAGN	ETIC HEADING	3: <u>We</u>	est
FIXED POINT: Near f										
SAMPLE MATRIX:	Soil (S)	□s	Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: RT.							<del></del>			
TIME SAMPLED: 10						(feet): Surface to 6				
SAMPLE DESCRIPTION										
No water or drip samp SAMPLING METHOD:		ater leve	l becau	use leak	y pipe flanc	je nearby. Sample s	houla t	est infiltration to	rom er	nd of culvent.
QA/QC SAMPLES CC		.   F		ont Blac	nk (ER)		tra Voli	umae		
☐ Trip Blank (TB)	ALEO I ED.				iik (Eb) ater Sample		lla von	Jines		
Ambient Condition	n Blank (Af		•		•					<u> </u>
			12	<del></del>						
	T				TER PARAI	T	Τ		<u> </u>	
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY
The second section of the second section is a second section of the second section section is a second section of the second section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section section s		22) ( 7.76(ii 27.2)	e dinace	Econoci TARMIN	manager and the					
MONITORING READINGS										
[				,   , , , , , , , , , , , , , , , , , ,		HANBY SCREEN	NING			
TIME	PID READ	JING (pp	m)	CG/LE	EL (%)	(standard/ppm)				
PG-Rackground: [	P7—Breath	ing Zone		Poraho	in NP-No	Pandings: HS-Hos		- C Cample		-1
bd=background, L	3Z=Dieam	Ing zone	3, DII—	DOLETTO	IE, IND-INO	Readings; HS=Hea	MSpace	3; S=Sample (	mucoi	itaineu)
			1	CHECK	ANALYSE	S REQUESTED				
			BARF	ROW LA	AB			ANCHO	RAGE	LAB
11111/050								CON		
ANALYSES				TAINER	I	ANALYSES	/	CON	TAINE	HS
		<u> </u>	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB	1	]				SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS	1	1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		· 2 liters		2 x 8 oz
<u> </u>										

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-22-93</u>	ATE: <u>8-22-93</u> SAMPLE ID: <u>LON-SS09-S06</u>									
RADAR STATION: P										
SITE/AOC: SS09 Ga					)M FIXED F	POINT:	MAGNE	TIC HEADING		st
FIXED POINT: West	end of the	garage b	uilding	<u> </u>						
SAMPLE MATRIX:	Soil (S)	☐ Se	edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: RT, JE					· · · · · · · · · · · · · · · · · · ·					
TIME SAMPLED: 10						, , , , , , , , , , , , , , , , , , , ,				
SAMPLE DESCRIPTI										
No water or drip sam				use leak	y pipe flang	e nearby. Sample s	hould t	est infiltration fro	om er	nd of culvert.
SAMPLING METHOD				Dla	· (CD)	7 04/00 5				
QA/QC SAMPLES Co	JLLEUTED						tra Voi	umes		
☐ Imp blank (16)	n Rlank (Δ					) ID		· · · · · · · · · · · · · · · · · · ·		
Timble in Contains	T DIGITA (A	D) <b>=</b> 11	epiloa.	- OI 30		D				
			<del></del>	WA.	TER PARAI	METERS	1			
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	/   7	TURBIDITY
									$\top$	
					W		$\dagger$		_	
	<del> </del>	-					-		+	
Color Section Color Section 5. Color	on the Mariana	Sand Standard Market	Divide palodis	and his to the control of	ng Pade SCSST			and Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah Salah		
MONITORING READINGS										
						HANBY SCREEN	JING		$\top$	
TIME	PID READ	DING (ppr	IG (ppm)		EL (%)	(standard/ppm)				
					7				+	
				L						
BG=Backgroung;	BZ=Breath	iing Zone;	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (ı	uncor	ntained)
			1	CHECK	ANALYSES	S REQUESTED			With the second	
			BARF	ROW LA	B			ANCHO		IΔR
						1				
ANALYSES	<b>/</b>		CON	TAINER	S	ANALYSES	1	CONT	AINE	RS
		W	ATER		SOIL			WATER	<u></u>	SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB	1					SVOC (8270)		1 liter		8 oz
PESTICIDES		1				TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40 r	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1	` ` ` ` `	•••		, J	TDS				
				<u> </u>				250 ml		
						TSS		250 ml		
						TOC		500 mi		4 oz
						TCLP		2 liters		2 x 8 oz
				1						
							L	1		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>			SAMPLE	ID: LON-SS	S09-2S04					
RADAR STATION: P										
SITE/AOC: <u>SS09 Ga</u>						M	AGNETIC HEA	DING	: Northwest	
FIXED POINT: 33 fo										
SAMPLE MATRIX:		☐ Se	diment (SD)		Surface Water (SW)		Groundwater (	GW)		
SAMPLERS: ML,										
TIME SAMPLED: <u>13</u> SAMPLE DESCRIPTION					(feet): Under tundr		to 1 foot			
SAMELE DESCRIPTION	JIN/GOIVIIVI	EN13. 110	illi IIIalbiiai,	graver, arru	TIME SIRS CONECIEU a	t 5 liic	nes to 1 100t.			
SAMPLING METHOD	: Deconne	ed shovel a	and disposa	ıble scoop.						
QA/QC SAMPLES CO	OLLECTED	: 🗆 Eq	juipment Bla	ank (EB)	☐ QA/QC Ex	tra Vol	umes			
☐ Trip Blank (TB)					e ID		-			
☐ Ambient Conditio	n Blank (Al	B) 🗌 Re	plicate of So	oil Sample II	O					
			WA	ATER PARA	METERS					
TIME	PH		CONDUCTIV	VITY	TEMPERATURE	SPE	CIFIC GRAVITY	/ T	TURBIDITY	
			•							
							**************************************	+		
						-		- -		
The Michigan Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company	i de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del compania del compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania del compania	70.000.000.0000000000000000000000000000	As a second second second							
			MOM	NITORING F	READINGS					
					HANBY SCREET	NING				
TIME	PID READ	DING (ppm	ı) CG/Li	EL (%)	(standard/ppm)			$\perp$		
BG=Background;	BZ=Breath	ing Zone;	BH=Boreho	ole: NR=No	Readings; HS=Hea	adspac	e: S=Sample (ı	ıncor	ntained)	
Personal States of States	onen i orto pomentalista		(III) (1777) Markan (1785) (1867)	78600200	MENTALE & M. a. 20. HTM is also consider the construction of Const.		nescon es es es estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estados estado	P. 2007, 17/40	*****	
	<del></del>	<del></del>	J CHECK	CANALYSES	S REQUESTED					
			BARROW L	AB 			ANCHO	RAGE	E LAB	
ANALYSES	1		CONTAINER	<b>7</b> S	ANALYSES	1	CONT	AINE	RS	
		WA	ATER	SOIL			WATER		SOIL	
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
РСВ					SVOC (8270)		1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010	1	1 x 40 m	าโ	4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1				TDS		250 ml			
					TSS		250 ml			
					TOC		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	
							**************************************			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>			SAI	MPLE I	D: LON-S	S09-2S06						
RADAR STATION: P	oint Lonely	nt Lonely WEATHER: Cloudy with a mild wind from the south										
SITE/AOC: SS09 Ga	SS09 Garage FEET FROM FIXED POINT: 85 MAGNETIC HEADING: 290°											
FIXED POINT: From	n the north	west corr	ner of t	he gara	age building	g						
SAMPLE MATRIX: □	Soil (S)	□ s	edimen	nt (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: RT												
TIME SAMPLED: 13												
SAMPLE DESCRIPTION	ON/COMM	ENTS: T	aken u	inder th	ne tundra g	ravel, fine sand, and	d tundr	a mat. At 80 f	eet fro	om the same		
location, a visual con		and an o	dor we	ere dete	ected.							
SAMPLING METHOD												
QA/QC SAMPLES CO	DLLECTED											
☐ Trip Blank (TB)		□ D	uplicate	e of Wa	ater Sample	e ID						
Ambient Condition	n Blank (A	B) ∐ R∈	eplicate	e of So	il Sample II	O						
				WA	TER PARAI	METERS						
TIME	PH		COND	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	y   -	TURBIDITY		
			****	,			1					
							<del> </del>	***				
							<u> </u>		_	<del></del>		
	<u>, jajan kerenden di Sabberden di</u>	::::::::::::::::::::::::::::::::::::::	ANTO THE PARTY	MON	ITORING R	EADINGS	Plantager		THE RESERVE			
	HANBY SCREENING											
TIME	PID READ	DING (ppr	n)	CG/LE	EL (%)	(standard/ppm)	VIIVO					
									-			
							<del></del>					
BG=Background; E	3Z=Breath	ing Zone;	BH=E	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (	uncor	ntained)		
	Takki Majago Paki Al-A		<b>√</b> C	CHECK	ANALYSES	S REQUESTED		<u>kan a Para Karanda Jawa se na sa</u>	1000000000			
			BARRO	ΟW Ι Δ	R			ANCHO		- 1 AD		
				ARROW LAB				ANCHORAG		LAB		
ANALYSES	1		CONT	AINER	S	ANALYSES	1	CON	[AINE	RS		
		W	ATER		SOIL			WATER		SOIL		
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz		
PCB						SVOC (8270)		1 liter		8 oz		
PESTICIDES						TOTAL METALS		1 liter		8 oz		
HVOC 8010	1	1 x 40 r	ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1					TDS		250 ml				
						TSS		250 ml				
						тос		500 ml		4 oz		
						TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-4-93</u>			SAMPLE	ID: LON-S	S09-2S07						
RADAR STATION: P	oint Lonely	· · · · · · · · · · · · · · · · · · ·	NEATHE	R: Cloudy	with a mild wind from	om the	south				
SITE/AOC: SS09 Ga	TE/AOC: SS09 Garage FEET FROM FIXED POINT: 85 MAGNETIC HEADING: 270°										
FIXED POINT: The	southwest	corner of the	garage t	ouilding.							
SAMPLE MATRIX:					Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: RT,	ML										
TIME SAMPLED: 13					(feet): 6 inches						
SAMPLE DESCRIPTION	ON/COMM	ENTS: Tund	a mat pe	at. The sar	mple was collected f	rom ur	ider the tundra				
SAMPLING METHOD	):										
QA/QC SAMPLES CO	OLLECTED	: 🗌 Equip	ment Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes				
☐ Trip Blank (TB)		☐ Duplic	ate of W	ater Sample	e ID						
☐ Ambient Conditio	n Blank (Al										
	· viset i		WA	TER PARA	METERS						
TIME	PH	CC	NDUCTI	/ITV	TEMPERATURE	SPE	CIFIC GRAVIT	v T	URBIDITY		
111111111111111111111111111111111111111	+ ' ' '	PR CONDO			TEM ENATORE		OI TO GRAVIT		ווטוטווט		
						ļ					
								i			
MONITORING READINGS											
TIME	PID READ	DING (ppm)	CG/LI	EL (%)	HANBY SCREEN (standard/ppm)	IING					
								1			
BG=Background;	BZ=Breath	ing Zone; BH	l=Boreho	ole; NR=No	Readings; HS=Hea	dspac	e; S=Sample (	(uncor	ntained)		
300 (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995			/ CHECK	( ANALYSE:	S REQUESTED		(DA) STANCE CONTRACTOR OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE STANCE OF THE				
		ВА	RROW LA	<b>λ</b> Β			ANCHO	RAGE	LAB		
ANALYSES	1	CC	NTAINEF	RS	ANALYSES	/	CON	TAINE	RS		
		WATE	R	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz		
РСВ					SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				TDS		250 ml				
			······································	ļ	TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $\mathrm{4^{\circ}C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: 8-27-93			SAMPLE	ID: LON-SS	309-SD01						
	Point Lonely WEATHER: Foggy, 36°F										
						MA	MAGNETIC HEADING: 333°				
FIXED POINT: NW o								_			
SAMPLE MATRIX: [	☐ Soil (S)	Sedin	nent (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS:DP	, ML							` '			
TIME SAMPLED: 0	9:30		DEPTH O	F SAMPLE	(feet):						
SAMPLE DESCRIPTI	ON/COMM	ENTS: <u>333°</u>	and 65 fe	et from nort	thwest corner of gar	age co	llected with SS	09-SV	V01. QA/QC		
sample. Blown sand											
SAMPLING METHOD	D: <u>Spade a</u>	ınd scoop									
QA/QC SAMPLES C	OLLECTED										
☐ Trip Blank (TB)		☐ Duplic	cate of Wa	ater Sample	e ID				<u> </u>		
Ambient Condition	on Blank (Al	B) 📕 Reptid	cate of Sc	oil Sample II	D LON-SS09-SD03						
			WA	TER PARAI	METERS						
TIME	PH	cc	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ 1	TURBIDITY		
			*			1					
						+					
	5 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	Marie and the second second second second second second second second second second second second second second	МОМ	NITORING R	IEADINGS	ANT STREET OF THE STATE	the in the color of the the second color of the	ବ୍ୟକ୍ତିକର୍ଷ୍ଟ ନେ	Company of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s		
					HANBY SCREEN				W		
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	(standard/ppm)	VIIVO	³				
								_			
								-			
BG=Background;	BZ=Breath	iing Zone; BH	l=Boreho	ole; NR≕No	Readings; HS=Hea	adspace	e; S=Sample (	(uncor	ntained)		
	TOO AND THE PARTY OF THE STATE OF THE	Maga in The sassagarage Stational.	✓ CHECK	ANALYSES	S REQUESTED			C. STANDARDS	. W.		
		ВА	RROW LA	AB			ANCHO	BAGE	- LAR		
			*****								
ANALYSES		CC	NTAINER	}S	ANALYSES	1	CON	TAINE	RS		
		WATE	:R	SOIL			WATER		SOIL		
ТРН	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz		
PCB	1				SVOC (8270)	1	1 liter		8 oz		
PESTICIDES					TOTAL METALS	1	1 liter		8 oz		
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				TDS		250 ml				
					TSS		250 ml				
					тос		500 ml		4 oz		
							:				
					TCLP	<b>!</b>	2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>			SA	MPLE I	D: LON-SS	S09-SD02					
RADAR STATION: P	oint Lonely		W	EATHER	R: <u>Foggy, (</u>	36°F					
SITE/AOC: SS09 Ga	rage		FE	ET FRO	M FIXED F	POINT:	MAGN	ETIC HEADING	3: <u>W</u> e	est	
FIXED POINT: North	end of sev	ver line.									
SAMPLE MATRIX:		S S	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: <u>DP, ML</u>				· · ·							
TIME SAMPLED: 10											
SAMPLE DESCRIPTION	ON/COMM	ENTS: <u>V</u>	Vest er	nd of dr	ainage por	d adjacent to north	ern end	of old sewer	ine, c	ollected with	
SS09-SW02.	Llondou										
SAMPLING METHOD				and Dia	-1: (ED)	T 01/00 F					
QA/QC SAMPLES CO  Trip Blank (TB)	JLLEGIED										
☐ Ambient Condition	n Blank (Al		uplicat	e of So	alei Sampie il Campia ii	ID					
Ambient Condition	II DIAIN (AI	b) 🗆 11	epiicai	.6 01 30							
			,	WA	TER PARA	METERS					
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   1	URBIDITY	
	<b>-</b>							<del></del>			
					,						
	enderske de ender de letter gebeure de en	to a second mention of the second second second second second second second second second second second second		MON	ITORING F	EADINGS			William of the	VII.	
						HANBY SCREEN	JING		$\Box$		
TIME	PID READ	DING (pp	m)	CG/LEL (%)		(standard/ppm)	11110				
	,								$\dashv$		
<u></u>	• • • • • • • • • • • • • • • • • • • •			***							
BG=Background; I	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample (	uncor	ntained)	
		To the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	1	CHECK	ANALYSES	S REQUESTED	2.0000000000000000000000000000000000000	in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of	33437400023/36046		
			BARE	20\A/ I A	R			ANCHORACE			
			-	ARROW LAB				ANCHORAGE		E LAB	
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS	
		W	/ATER		SOIL		:	WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ	1					SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
			-			TSS		250 mi			
	5.04.63					тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	
								<u> </u>			
		<u> </u>			<u> </u>	1	<u> </u>	<u></u>		<u> </u>	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>			_SAMPLE	ID: LON-SS	S09-SD03					
RADAR STATION: P	oint Lonely		WEATHER: Foggy, 36°							
SITE/AOC: SS09 Ga			FEET FRO	OM FIXED F	POINT: <u>65</u>	MAG	NETIC HEADING	3: <u>3</u> :	33°	
FIXED POINT: NW o										
SAMPLE MATRIX:		Sec	liment (SD)		Surface Water (SW)		Groundwater (0	GW)		
SAMPLERS: <u>DP</u>		<u> </u>								
TIME SAMPLED: <u>09</u> SAMPLE DESCRIPTI										
SAMULE DEGOTIN TI	014/0014/14/1	LIVIO. <u>DIO</u>	WII SAIIU AI	iu lilie glav	ei, wet.					
SAMPLING METHOD	): <u>Spade a</u>	nd scoop								
QA/QC SAMPLES C	OLLECTED	: 🗆 Equ	ipment Bla	ınk (EB)	☐ QA/QC Ex	tra Vol	umes			
☐ Trip Blank (TB)					e ID					
Ambient Condition	n Blank (Al	B) 🖪 Rep	licate of So	oil Sample II	D <u>LON-SS09-SD01</u>					
			WA	TER PARA	METERS					
TIME	PH		CONDUCTION	VITY	TEMPERATURE	SPE	CIFIC GRAVITY	T	URBIDITY	
						1				
			·					_		
					,,,,,		7			
	terinanteras escuestas esc	Çaranın ünasının katçır	. To develope to	Considerate Co. Co. Co.		TO THE STREET, WILLIAM	<b>Mark</b>	43°1 - 14322201	Karanga Tanggan Sanggan Sanggan	
			10M	NITORING F	READINGS					
					HANBY SCREEN	NING				
TIME	PID READ	DING (ppm)	CG/L	EL (%)	(standard/ppm)	···		_		
				Winds .						
BG=Background;	BZ=Breath	ing Zone; l	3H=Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample (u	ıncor	ntained)	
	Paramania (Print) Kara Saw	Konstantin da sakaraban	lan and Establish	200-200 <b>-200-2</b> 00-200-200-200-200-200-200-200-20	S REQUESTED	he diverse	ক্ষার শহরণ করে। তা বি নির্মাণী বারণাকর	800 VA.		
			BARROW L		1		ANGLIOE		LAD	
							ANCHOF			
ANALYSES		(	CONTAINER	RS T	ANALYSES	1	CONT	AINE	RS	
		WA	TER	SOIL			WATER		SOIL	
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
PCB	1				SVOC (8270)	1	1 liter		8 oz	
PESTICIDES					TOTAL METALS	1	1 liter		8 oz	
HVOC 8010	1	1 x 40 m		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1	]			TDS		250 ml			
			•		TSS		250 ml			
					тос		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>			SA	MPLE	D: LON-SS	809-SW01				
RADAR STATION: Po	oint Lonely	Lonely WEATHER: Foggy, 36°F								
SITE/AOC: SS09 Gar	rage		FE	ET FRO	M FIXED F	OINT: <u>65</u>	_ MAG	NETIC HEADI	NG: _3	333°
FIXED POINT: NW co	orner of ga	rage.								
SAMPLE MATRIX:				nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>DP,</u>										
TIME SAMPLED: 09						(feet):				
SAMPLE DESCRIPTION	JN/COMM	ENIS: 3	333° ar	nd 65 fe	et from nor	thwest corner of ga	rage.	Collected with	SD01.	Yellow/rust
tinted water, clear.	. Dagana									
SAMPLING METHOD:										
QA/QC SAMPLES CC	DLLEGIED				` ,					
☐ Trip Blank (TB)	D					ID				
☐ Ambient Condition	n Blank (Al	B) L F	Replicat	te of So	il Sample II	)				
				WA	TER PARAI	METERS	•			
TIME	PH	rh CON			TITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y 1	TURBIDITY
	7.9		1,560	)		5°C	ļ			
See See	markin i Maria (M. 1902)		ent selection and				is in the reliable			
				MON	itoring r	EADINGS				3.11.00
TIME	DID DEAF	NNO (aa	\	00".5	1 (0()	HANBY SCREEN	IING			
TIVE	PID READ	лис (рр	1111)	) CG/LEL (%)		(standard/ppm)				
BG=Background: F	37=Breath	ina Zone	l e: BH=	:Boreho	le: NR=No	 Readings; HS=Hea	ndsnac	e: S=Sample :	(uncor	ntained)
			A AMELIANS	Rose Autor	O DESCRIPTION	1 11 m 2 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1		Services Services	(direct	
						REQUESTED			D 4 O 5	- 1 4 5
			BAR	ROW LA	.B			ANCHORAGE		: LAB
ANALYSES	/		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		٧	VATER		SOIL			WATER		SOIL
TPH	/	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB						SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS	1	1 liter		8 oz
HVOC 8010	/	1 x 40	ml		4 oz	DISS METALS	1	1 liter		
VOC-BTEX 8020	1				<b>W</b>	TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to  $4^{\circ}C$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>		S	AMPLE	ID: <u>LON-S</u>	S09-SW02				
		t Lonely WEATHER: Foggy, 36°F							
SITE/AOC: SS09 Ga	arage	F	EET FRO	OM FIXED F	POINT:	MAG	VETIC HEADIN	IG: <u>W</u>	est est
FIXED POINT: North	end of sev	wer line.							
SAMPLE MATRIX:	☐ Soil (S)	☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: DP,	. ML		====						
TIME SAMPLED: 09									
SAMPLE DESCRIPTI	ON/COMM	ENTS: West	ena or p	onded area	adjacent to norther	n end	of old sewer li	ne. C	ollected with
SS09-SD02.	): Decem	ad basker							
SAMPLING METHOD									
QA/QC SAMPLES CO	OLLECTED	• •			☐ QA/QC E				
☐ Trip Blank (TB)	DI 1 (4)	☐ Duplica	ate of Wa	ater Sample	e ID				
☐ Ambient Conditio	n Blank (A	B) 🔲 Replica	te of Sc	il Sample I	D				
			WA	TER PARA	METERS				
TIME	PH	CON	IDUCTI\	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ -	TURBIDITY
			1-0						
	<del> </del>					-			
	en de de de Parte par la 2011	Carlo Messaciae (1965) (1965) (1966) (1966)	401	IITODINO F	NEADINGS.	TO THE STATE OF	Mary Brand Control of the Control		engere policy fathered are see
			MON	IITORING F	READINGS				
T:18.45	DID DEAD	N. O. (			HANBY SCREE	NING			
TIME	PID REAL	DING (ppm)	) CG/LEL (%		(standard/ppm)				
PG-Packground:	D7 - Brooth	ing Zone, DII	D	NID NI-	<u> </u>		L		
Dd-background,	DZ=DIEdili	ing zone, bh	=poreno	ole; INH=NO	Readings; HS=Hea	adspac	e; S=Sample	(uncoi	ntained)
		<b>√</b>	CHECK	ANALYSE	S REQUESTED				
		BAR	ROW LA	\B			ANCHORAGE LAB		LAR
							ANCHORAGE		LAU
ANALYSES	1	CON	ITAINER	RS	ANALYSES	1	CON	TAINE	RS
		WATER	} 	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB					SVOC (8270)	1	1 liter		8 oz
PESTICIDES			<b>,</b>		TOTAL METALS	1	1 liter		8 oz
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS	1	1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:



DATE: <u>8-27-93</u>			SA	MPLE I	ID: LON-ST	Γ10-S01						
RADAR STATION: <u>P</u>												
SITE/AOC: ST10 Die						POINT: 0	MAG	NETIC HEADIN	IG: <u>E</u>	ast		
FIXED POINT: <u>Bas</u>	e east side	berm ne	ar thre	e valves	S.							
SAMPLE MATRIX: 📕	Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS:JB												
TIME SAMPLED: 1												
SAMPLE DESCRIPTI	ON/COMMI	ENTS: <u>N</u>	/ledium	ı sand v	with 30 perd	cent small pellets to	granule	es.	** -			
CAMPLING METHOR	); Dianonal							· · · · · · · · · · · · · · · · · · ·				
SAMPLING METHOD				ant Dis-		T 04/00 F	\ ( 1					
QA/QC SAMPLES C Trip Blank (TB)	OLLEGIED											
☐ Ambient Condition	n Rlank (Δ)					e ID						
Ambient Condition	III DIAIN (AL	<i>)</i>		.e oi 30	ii Sample II							
				WA [*]	TER PARA	METERS						
TIME	TIME PH CONDUC					TEMPERATURE	SPE	CIFIC GRAVIT	Y   1	URBIDITY		
	1					***************************************	<b> </b>					
	Store of the Secretary	record Via Ballian	Section and	Talling Proof and the	encapalis SSC 400	and a contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract		Min. A. and the organization of the second	anne de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la con			
				MON	IITORING F	READINGS						
	HANBY SCREENING											
TIME	PID READ	)ING (pp	m)	CG/LE	EL (%)	(standard/ppm)						
DO 01	D7 D											
BG=Background;	BZ=Breath	ing Zone	»; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncor	ntained)		
			1	CHECK	ANALYSE	S REQUESTED						
			BAR	ROW LA	AB			ANCHORAGE		LAR		
		<u> </u>				1						
ANALYSES	/		CON	ITAINER	is	ANALYSES	1	CON	TAINE	RS		
		W	VATER		SOIL			WATER		SOIL		
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz		
РСВ						SVOC (8270)		1 liter	"	8 oz		
PESTICIDES						TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1					TDS		250 ml				
						TSS		250 ml				
						тос		500 ml		4 oz		
						TCLP		2 liters		2 x 8 oz		
								I				
		<u></u>			<u> </u>	<u> </u>		L		L		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-5-93</u>	TE: <u>9-5-93</u> SAMPLE ID: <u>LON-ST10-2S02-1.5</u>										
RADAR STATION: P	oint Lonely		_WEATHE	R: <u>42°F,</u>	partly cloudy						
SITE/AOC: ST10 Die	esel Tank		_ FEET FRO	OM FIXED I	POINT: 22 feet out	N	MAGNETIC HEA	DING	3: <u>NW</u>		
FIXED POINT: Nor	thwest corr	ner of berm	, 43 feet ea	st from nort	hwest corner.						
SAMPLE MATRIX: <b>S</b> SAMPLERS: JM		☐ Sed	diment (SD)		Surface Water (SW)		Groundwater (	GW)			
TIME SAMPLED: 1			DEDTH O	ECAMBLE	(foot): 1 E			· · · · ·			
SAMPLE DESCRIPTI			_			donco	of contamination				
o, 22 02001 11	011,0011111		olour buria a	ina graver p	ad Material. 140 evi	Jence	or contaminatio	11.			
SAMPLING METHOD	D: Auger ar	nd scoop									
QA/QC SAMPLES C	OLLECTED	•	-	, ,	☐ QA/QC Ex		umes				
☐ Trip Blank (TB)					e ID				·		
☐ Ambient Condition	on Blank (Al	B) 🗌 Rep	plicate of Sc	oil Sample I	D						
			WA	TER PARA	METERS	•					
TIME	PH		CONDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	/ -	TURBIDITY		
				***************************************							
							294-204-4-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A				
MONITORING READINGS									**************************************		
		120-15-12-01-11			HANBY SCREEN			<u> </u>			
TIME	PID READ	DING (ppm	G (ppm) CG/LE		(standard/ppm)						
BG=Background;	BZ=Breath	ing Zone;	BH=Boreho	ole; NR=No	Readings; HS=Hea	dspac	e; S=Sample (ı	ıncoı	ntained)		
		A STATE OF THE STATE OF THE STATE OF	✓ CHECK	ANALYSE	S REQUESTED						
		E	BARROW LA	√B			ANCHO	RAGE	LAB		
ANALYSES	1	(	CONTAINER	RS	ANALYSES	/	CONT	AINE	RS		
		WA	TER	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
PCB				1	SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40 m	l	4 oz	DISS METALS		1 liter				
VOC-BTEX 8020					TDS		250 ml				
				TSS		250 ml					
			тос		500 ml		4 oz				
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-5-93</u>			SA	MPLE	D: LON-S	T10-2S03-1.5					
RADAR STATION: P	oint Lonely		W	EATHER	R: Sunny	, warm, 50°F					
SITE/AOC: ST10 Die	sei Tank		FE	ET FRO	OM FIXED I	POINT: 34	MAC	SNETIC HEAD!	NG:	NW	
FIXED POINT: Pun	nphouse ar	nd light p	ole. 3	4' from	pumphous	e stairway northwes	 t post,	30' from light p	ole w	est of stairs.	
SAMPLE MATRIX:											
SAMPLERS: JM,											
TIME SAMPLED: 15						(feet): 1.5					
SAMPLE DESCRIPTION	ON/COMM	ENTS: S	Sand a	nd grav	el fill, moist	t. No odor or obser	ved PC	L contaminatio	n		
SAMPLING METHOD	): Hand ou	aar ond									
SAMPLING METHOD											
QA/QC SAMPLES CO  Trip Blank (TB)	JLLEGIED					☐ QA/QC Ex					
☐ Ambient Conditio	n Blank (ΔI	3) [] B	onlicat	te of So	aler Sample Ji Sample II	e ID					
The series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of th	TOTALIN (A	J) [_] [	ерпса								
	<del></del>			WA	TER PARA	METERS	·				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	/   T	TURBIDITY	
				***			_	***	╅		
							<del> </del> -		+		
the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	Diska William	ki ki dalai dha ji Ma	alitystifas ystems	and the second second	Chamilton Color & Water Constant		th sylvenia suggests and suggests as a suggest			
MONITORING READINGS											
						HANBY SCREEN	NING				
TIME	PID READ	ING (pp	NG (ppm) CG/LEI			(standard/ppm)					
							- 1111				
									+		
PC - Pookara und	DZ Drasth	: <b>7</b>									
bG=background;	BZ=Breath	ing Zone	e; BH=	Boreno	ile; NH=No	Readings; HS=Hea	adspace	e; S=Sample (ι	ıncor	ntained)	
		· · · · · · · · · · · · · · · · · · ·	1	CHECK	ANALYSE	S REQUESTED					
			BARF	ROW LA	ΛB			ANCHO	RAGE	LAB	
ANALYSES			CON	TAINER	19	ANALYOFO	۰				
AIVALIOLO	/		<del></del>			ANALYSES	1	CONT	AINE	ns	
		M	<b>/ATER</b>		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020						TDS		250 ml	**		
				<u> </u>		TSS		250 ml			
			***			TOC		500 ml		4 oz	
						TCLP		2 liters			
						100		Z IILEIS		2 x 8 oz	
			<del>.</del>								

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO $_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-5-93</u>			SA	MPLE	D: LON-S	Γ10-2S04-1.2					
RADAR STATION: <u>P</u>	oint Lonely		W	EATHEF	R: Sunny	warm, 50°F					
SITE/AOC: ST10 Die	esel Tank		FE	ET FRO	M FIXED F	OINT: <u>84</u>	_ MAC	ENETIC HEADIN	IG: <u>1</u>	North 3°East	
FIXED POINT: Sou	thwest corr	ner of pur	nphot	ıse							
SAMPLE MATRIX:		☐ Se	edime	nt (SD)		Surface Water (SW)		Groundwater (0	GW)		
SAMPLERS: <u>JB,</u>											
TIME SAMPLED: 15						(feet): 1.2					
SAMPLE DESCRIPTION	ON/COMM	ENIS: <u>Da</u>	ark bro	own silty	clay at per	mafrost refusal, froz	en, no e	evidence of con	tamir	nation, about	
1 to 1.2 feet deep.	\	-1 -0	_1_1_								
SAMPLING METHOD				•							
QA/QC SAMPLES CO	OLLECTED				• •						
☐ Trip Blank (TB)	51 1 (4)					e ID		19-11			
Ambient Conditio	n Blank (Al	B) 🗆 Re	eplica	te of So	il Sample II				-		
				WA	TER PARA	METERS					
TIME	PH		CON	DUCTIV	ΊΤΥ	TEMPERATURE	SPE	CIFIC GRAVITY		URBIDITY	
							+		+		
									-		
MONITORING READINGS											
						1		<u> </u>	Т		
TIME	PID REAF	ING (nor	NG (ppm) CG/LE			HANBY SCREENING CG/LEL (%) (standard/ppm)					
111412	110 110,10	onto (ppi	NG (ppm)   CG/L		(/0)	(Startdard/ppiri)			+		
									╀-		
BG=Background;	BZ=Breath	ing Zone;	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample (u	ncor	ntained)	
	Photodoxida	ara indicate de la companya de la companya de la companya de la companya de la companya de la companya de la c	S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. State and S. St	OUTOK		O DEOLICOTED					
		<u> </u>		CHECK	ANALYSE	S REQUESTED					
			BAR	ROW LA	\B			ANCHOF	RAGE	LAB	
ANALYSES	1		CON	TAINER	IS	ANALYSES	1	CONT	AINE	RS	
		w	ATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 ı	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020						TDS		250 ml			
				. 1200		TSS		250 ml			
						тос		500 ml		4 oz	
			·			TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>			SA	MPLE I	D: LON-S1	Γ10-SD01				
RADAR STATION: P										
SITE/AOC: ST10 Die								AGNETIC HEA	DING:	
FIXED POINT: Ben										
SAMPLE MATRIX:	] Soil (S)	S	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>DP</u>										
TIME SAMPLED: 11	:50		DE	PTH O	F SAMPLE	(feet): 2"				
SAMPLE DESCRIPTION	ON/COMM	ENTS: <u>E</u>	Black o	dorous	mud.					
OAMBUNO METUOD										
SAMPLING METHOD										
QA/QC SAMPLES CO	DLLECTED									
☐ Trip Blank (TB)	n Dinni, (Al	, C	uplicat	te of Wa	ater Sample	9 ID				·
Ambient Conditio	n Blank (Al	3) LJ H	replicat	e of So	il Sample II	)				
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ   1	URBIDITY
				<del></del>			-			
				···				- · · · · · · · · · · · · · · · · · · ·		
	989. 3534A96-53	- W. C. (1995)	Kalini dan sesa	Shorter series (1971)	egvaleth f T Politic in a					
MONITORING READINGS										
		HANBY SCREENING								
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)	11110			
		•		· · · · · · · · · · · · · · · · · · ·					-	
								<u> </u>		
BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho		Readings; HS=Hea			(uncor	ntained)
			1	CHECK	ANALYSE	S REQUESTED				
			BARF	ROW LA	.В			ANCHO	RAGE	LAB
4414/050			CON	TAINICO	0	•				
ANALYSES	1		CON	TAINER	5	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
								500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>	ATE: 8-27-93 SAMPLE ID: LON-ST10-SD02										
RADAR STATION: <u>P</u>	oint Lonely		WEATH	IER: <u>Fog. 41°</u>	·F						
SITE/AOC: ST10 Die	esel Tank		FEET F	ROM FIXED F	POINT:	MAGN	ETIC HEADIN	G: <u>SV</u>	V		
FIXED POINT: Bas	e of southw	vest corne	r of berm		<del></del>						
SAMPLE MATRIX:	Soil (S)	Se	diment (S	D) 🗆	Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: <u>JB</u> TIME SAMPLED: <u>11</u>	1.15		DEDTU	OF CAMPLE	/foot):						
SAMPLE DESCRIPTI						s collec	rted in an 8 ou	ınca is			
ONIVIT EL DEGGIAN TI	014,001/11/11		piloute of	0110-0007.	VOO-B1EX 0020 Wa	3 CONC	nea in an o oc	ince je	и.		
SAMPLING METHOD	): <u>Disposat</u>	ole scoop,	auger								
QA/QC SAMPLES C	OLLECTED	: 🗆 Eq	uipment E	Blank (EB)	☐ QA/QC Ex	tra Vol	umes				
☐ Trip Blank (TB)		☐ Du	plicate of	Water Sample	: ID						
Ambient Conditio	n Blank (Al	3) 🖪 Re	plicate of	Soil Sample II	D LON-ST10-SD07						
		· · · · · · · · · · · · · · · · · · ·	V	WATER PARA	METERS	<b>.</b>			*****		
TIME	PH		CONDUC	TIVITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY		
						ļ					
MONITORING READINGS											
TIME	PID READ	ING (ppm	ı) CG	HANBY SCREEN (standard/ppm)		IING					
		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		-							
BG=Background;	BZ=Breath	ing Zone;	BH=Bore	hole; NR=No	Readings; HS=Hea	dspac	e; S=Sample	(uncor	ntained)		
		C47098.38 (1825) (1884) 33	✓ CHE	CK ANALYSE:	S REQUESTED	1663			ক পৰ কিন্তু ইউটোকালৈ হ'ব বি গছ ।		
· · · · · · · · · · · · · · · · · · ·			BARROW	LAB			ANCHO	RAGE	LAB		
ANALYSES			CONTAIN	ERS	ANALYSES	1	CON	TAINE	RS		
		WA	ATER	SOIL			WATER		SOIL		
ТРН	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
РСВ					SVOC (8270)		1 liter	•	8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40 m	nl lr	4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				TDS		250 ml				
					TSS		250 ml				
					TOC		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>			SA	MPLE I	D: LON-S	T10-SD03				
RADAR STATION: PO										
SITE/AOC: ST10 Die	sel Tank		FE				MAGNE	TIC HEADING:	Sou	ıth
FIXED POINT: <u>Bas</u>	e center sc	uth side	berm							
SAMPLE MATRIX:	] Soil (S)	S	edime	nt (SD)		Surface Water (SW)		Groundwater (C	SW)	
SAMPLERS: <u>JB</u>								*******		
TIME SAMPLED: <u>11</u>										
SAMPLE DESCRIPTION										
during decanting. She SAMPLING METHOD				eam and	d along ed	ge of pond near berr	n. VOC	-BTEX 8020 coll	ecte	d in 8 oz jar.
QA/QC SAMPLES CO				ant Dio	ale (ED)	П 04/00 F	\ /-1			
GA/GC SAMFLES CC ☐ Trip Blank (TB)	JEECTED					QA/QC EX D				
☐ Ambient Condition	n Blank (Al								· · · · ·	
				*	TER PARA					
TIME	PH		CON	***********		1	Tabe	OIEIO ODANITA	Т_	
THIVE	I FN		CON	DUCTIV	/!   Y	TEMPERATURE	SPE	CIFIC GRAVITY	+	URBIDITY
MONITORING READINGS										
	HANBY SCREENING									
TIME	PID READ	DING (pp	NG (ppm) CG/LEL (%			(standard/ppm)	NING			
	***************************************		,						1	
					********				+	
						<u> </u>			<u> </u>	
BG=Background; I	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=Nc	Readings; HS=Hea	adspac	e; S=Sample (u	ncor	ntained)
			1	CHECK	ANALYSE	S REQUESTED				
			BARF	ROW LA	\B			ANCHOR	AGE	LAB
ANALYSES	1		CON	TAINER	 IS	ANALYCEC		CONTA	VINIC	DC.
AIVALISES				<del></del>		ANALYSES	/		AIINE	
			/ATER		SOIL			WATER		SOIL
TPH	<i>'</i>	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB						SVOC (8270)	1	1 liter		8 oz
PESTICIDES				<del>,</del>		TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
								I		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

RADAR STATION: Point Lonely WEATHER: Fog. 41°F  SITE/AOC: ST10 Diesel Tank FEET FROM FIXED POINT: MAGNETIC HEADING: SE  FIXED POINT: Base southeast corner berm  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: JB  TIME SAMPLED: NA DEPTH OF SAMPLE (feet):  SAMPLING METHOD:  GA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDT  MONITORING READINGS  TIME PID READING (ppm) CG/LEL (%) (standard/ppm)
FIXED POINT: Base southeast corner berm  SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: JB  TIME SAMPLED: NA DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: Organic clay material.  SAMPLING METHOD: QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  MONITORING READINGS  HANBY SCREENING
SAMPLE MATRIX: Soil (S) Sediment (SD) Surface Water (SW) Groundwater (GW)  SAMPLERS: JB  TIME SAMPLED: NA DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: Organic clay material.  SAMPLING METHOD:  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  MONITORING READINGS  HANBY SCREENING
SAMPLERS: JB  TIME SAMPLED: NA DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: Organic clay material.  SAMPLING METHOD:  QA/QC SAMPLES COLLECTED: Equipment Blank (EB) QA/QC Extra Volumes  Trip Blank (TB) Duplicate of Water Sample ID  Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  MONITORING READINGS  HANBY SCREENING
TIME SAMPLED: NA DEPTH OF SAMPLE (feet):  SAMPLE DESCRIPTION/COMMENTS: Organic clay material.  SAMPLING METHOD:  QA/QC SAMPLES COLLECTED:
SAMPLE DESCRIPTION/COMMENTS: Organic clay material.  SAMPLING METHOD:  QA/QC SAMPLES COLLECTED:
SAMPLING METHOD:  QA/QC SAMPLES COLLECTED:
QA/QC SAMPLES COLLECTED:
Trip Blank (TB) Duplicate of Water Sample ID  Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  MONITORING READINGS  HANBY SCREENING
Ambient Condition Blank (AB) Replicate of Soil Sample ID  WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  MONITORING READINGS  HANBY SCREENING
WATER PARAMETERS  TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDIT  MONITORING READINGS  HANBY SCREENING
TIME PH CONDUCTIVITY TEMPERATURE SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TURBIDITED TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GRAVITY TO THE PHYSICAL SPECIFIC GR
MONITORING READINGS  HANBY SCREENING
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HANBY SCREENING
HANBY SCREENING
BG=Background; BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)
✓ CHECK ANALYSES REQUESTED
BARROW LAB ANCHORAGE LAB
ANALYSES CONTAINERS ANALYSES CONTAINERS
WATER SOIL WATER SOIL
TPH    ✓ 1 liter  8 oz
PCB SVOC (8270) 1 liter 8 oz
PESTICIDES TOTAL METALS 1 liter 8 oz
HVOC 8010
VOC-BTEX 8020 / TDS 250 ml
TSS 250 ml
TOC 500 ml 4 oz
TCLP 2 x 8 d

Preservation: HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes: Bullen=BUL; Oliktok=OLI; Barter=BTR; Loneiy=LON; Barrow=BRW; Wainwright=WRT; Lay=LAY; Lisburne=LIS

DATE: <u>8-27-93</u>			SA	MPLE I	D: LON-ST	10-SD05				
RADAR STATION: P										
SITE/AOC: ST10 Die							MA	AGNETIC HEAD	DING:	190°
FIXED POINT: Sou										
SAMPLE MATRIX:	☐ Soil (S)	■ S	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: JB										
TIME SAMPLED: 13						(feet):	· · · · · · · · · · · · · · · · · · ·			
SAMPLE DESCRIPTI	ON/COMME	ENTS: <u>s</u>	heen r	<u>oresent.</u>						
SAMPLING METHOD	٠									
QA/QC SAMPLES C				ont Blar	ol (ED)		tra Vali			
Trip Blank (TB)	JLLEUTED.					ID				
☐ Ambient Conditio	n Blank (Af	3) 🗌 R	eplicat	e of So	il Sample ID	) )				
			- 1-							
T.,					TER PARAN		1	-:-:-		
TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   1	URBIDITY
MONITORNO DE ADMOS										
MONITORING READINGS										
TINAC	חוד מבער	NINO (nn		00/15	-1 (0/)	HANBY SCREEN	IING			
TIME	PID READ	MAG (bh	mı)	CG/LE	:L (%)	(standard/ppm)			+	
								<u></u>		
BG=Background;	BZ=Breath	ing Zone	: e; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncor	ntained)
THE WAR CO. HE WAS A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T		organical de l'archident		Victor Valence of		Correct Alberta (See Harrest Market)	n consider	。 1987年,1987年,1987年,1987年,1988年 1987年,1987年,1987年,1987年,1987年,1987年		XXX SAME POOL A CHI-
	1					REQUESTED				
			BARF	ROW LA	'B			ANCHO	RAGE	LAB
ANALYSES	1		CON	TAINER	(S	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
			<del></del>			TSS		250 ml		
						тос		500 ml		4 oz
					TCLP		2 liters	***	2 x 8 oz	
	<del>-  </del>									
L					1	Ī				1

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>			SAI	MPLE !	D: LON-ST	10-SD06-2				
RADAR STATION: PO										
SITE/AOC: ST10 Die	sel Tank		_ FE	ET FRO	M FIXED P	OINT: 6	_ MAG	NETIC HEADII	NG: _	90°
FIXED POINT: South	east conrn	er of new	steel f	frame p	ad.					
SAMPLE MATRIX:	] Soil (S)	Se Se	edimen	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>JB, RT</u>										
TIME SAMPLED: 13										
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>De</u>	eep sa	imple b	elow ST10-	SD05				
SAMPLING METHOD	: Disposat	ole scoop	, auge	r						
QA/QC SAMPLES CO	DLLECTED:	: 🗆 Ed	quipme	ent Blar	nk (EB)	☐ QA/QC Ex	tra Volu	umes		
☐ Trip Blank (TB)		□ Du	uplicate	e of Wa	ater Sample	ID				
☐ Ambient Conditio	n Blank (Al									
				WA	TER PARAI	METERS				
TIME	PH		CONE	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY
			<del></del>							
			Sy.				<u> </u>			
									$\perp$	
			W. Warring	TOOL	pasy/sw/www.					100
MONITORING READINGS										
						HANBY SCREEN	NING			
TIME	PID READ	ING (ppn	NG (ppm) CG		EL (%)	(standard/ppm)				
			1							
BG=Background	B7==Breath	ina Zone:	BH=I	Boreho	ie: NR-No	Readings; HS=Hea	denaci	s: S=Sample (	uncor	stained)
Da-Background,	DZ-Dicum	ing zone,	BELLEVIE	Boreno	10, 1111-110	rteadings, rio—rice	a a a a a a a a a a a a a a a a a a a	s, o-oampie (	arroor	ramea)
	· · · · · · · · · · · · · · · · · · ·		1	CHECK	ANALYSES	S REQUESTED				
			BARR	OW LA	λB			ANCHO	RAGE	LAB
ANALYSES	1		CONT	TAINER	S	ANALYSES	1	CON	TAINE	RS
		W	ATER		SOIL			WATER	· · · · · · · · · · · · · · · · · · ·	SOIL
TPH	1	1 liter		.x . A 73	8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 r	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						TOC		500 mi		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>9-5-93</u>	E: <u>9-5-93</u> SAMPLE ID: <u>LON-ST10-2SD08</u>										
RADAR STATION: P											
SITE/AOC: ST10 Die	sel Tank		FEE	ET FRO	M FIXED P	OINT: <u>52</u>	MA	GNETIC HEAD	ING:	East	
FIXED POINT: Sou	theast corn	er of ber	m (pipe	e follow	ing top of b	oerm). Tape measu	red fro	m pipe.			
SAMPLE MATRIX:	Soil (S)	S	edimen	nt (SD)		Surface Water (SW)		Groundwater (	(GW)		
SAMPLERS:JB			<b>7.</b> 400								
TIME SAMPLED: 14	:04		DEI	PTH OF	SAMPLE	(feet): Surface to 0.	2				
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>N</u>	oderat	e sand	and small	pellets. Gravel silty,	light b	rown, generall	/ clea	n	
										-	
SAMPLING METHOD	: Disposat	ole scoop	)								
QA/QC SAMPLES CO	OLLECTED:				` '	☐ QA/QC Ex					
☐ Trip Blank (TB)						ID			<del></del>		
☐ Ambient Conditio	n Blank (Al	3) ∐ R	eplicate	of Soi	il Sample ID	)					
	·			WA	TER PARAN	METERS					
TIME	PH		CONE	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ   T	URBIDITY	
						11 TO AND AND AND AND AND AND AND AND AND AND			$\dashv$		
							-				
						· · · · · · · · · · · · · · · · · · ·			$\perp$		
MONITORING READINGS											
		HANBY SCREENING									
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)					
					· · · · · · · · · · · · · · · · · · ·			ļ	1		
							*			-	
BG=Background;	BZ=Breath	ing Zone	e; BH=[	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncor	ntained)	
			<b>/</b> (	CHECK	ANALYSES	REQUESTED			- Control of Control		
			BARR	OW LA	В			ANCHO	RAGE	IΔR	
ANALYSES	1		CONT	TAINER	S	ANALYSES	1	CON	TAINE	RS	
		V	VATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020						TDS		250 ml			
						TSS		250 ml			
						тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	
							-				

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $4^{\circ}\mathrm{C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: 9-5-93											
RADAR STATION: <u>P</u>											
SITE/AOC: ST10 Die	sel Tank_		FE	ET FRO	M FIXED F	POINT: 113	N	IAGNETIC HE	ADING	ì:	
FIXED POINT: Sou	theast corr	ner of pad	elbow	v in pipe	e. Souther	n most edge of wate	er arm	connected to	base c	of pad.	
SAMPLE MATRIX: [ SAMPLERS: JB	Soil (S)	Se	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
TIME SAMPLED: 14	1:30		DF	PTH OF	SAMPLE	(feet): 0.2 feet, und	er 6 inc	thes of water			
SAMPLE DESCRIPTION									ent thir	laver in las	
scoop, 1/4" thick orga					Zo percen	pod gravor. Odrnor	<u>gorior</u>	any oldan oxo	Spt tim	riayer iir iao	
SAMPLING METHOD				0001.							
QA/QC SAMPLES CO				ent Blar	ık (FB)	□ QA/QC Ex	tra Voli	ımes			
☐ Trip Blank (TB)	32223,23					: ID					
☐ Ambient Conditio	n Blank (Al				•					1.79	
					TER PARAI					·	
TIME	PH		CONI	DUCTIV		TEMPERATURE	SPE	CIFIC GRAVIT	y   T	URBIDITY	
	1						1			3.13.3.1.1	
**Special Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of			Managara (Alifonia)		oblokumistis oleh Saliheri						
MONITORING READINGS											
TIME	PID READ	DING (ppm	NG (ppm) CG/LE			HANBY SCREEN (standard/ppm)	NING				
		ADING (ppm) CG/L									
		hart (floresterna)									
BG=Background;						Readings; HS=Hea	dspace	e; S=Sample	(uncor	ntained)	
	HT CONTRACTOR STATE					S REQUESTED					
			BARF	ROW LA	.B			ANCHO	RAGE	E LAB	
ANALYSES			CON	TAINER	S	ANALYSES	1	CON	TAINE	RS	
		WA	ATER		SOIL			WATER		SOIL	
ТРН		1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter	,,,	8 oz	
HVOC 8010		1 x 40 n	nl		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020						TDS		250 ml			
					TSS		250 ml				
		***************************************	,		***************************************	TOC		500 ml		4 oz	
				<del></del>		TCLP		2 liters		2 x 8 oz	

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>8-27-93</u>			SA	MPLE	D: LON-S1	10-SW01				
RADAR STATION: P										
SITE/AOC: ST10 Die	esel Tank		FE	ET FRO	M FIXED F	OINT:	MAGNE	ETIC HEADING	3: <u>Sοι</u>	uth
FIXED POINT: Ben	eath valve,	south si	de pur	np hous	se.					
SAMPLE MATRIX:	∃ Soil (S)	□s	Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS:DP										
TIME SAMPLED: 11	1:45		DE	PTH O	F SAMPLE	(feet):				
SAMPLE DESCRIPTI	ON/COMM	ENTS: _								
SAMPLING METHOD	··								•	
QA/QC SAMPLES CO							tra Vali	ımoc		
☐ Trip Blank (TB)	OLLLOTED					ID				
☐ Ambient Condition	n Blank (Al	3)   F	Replicat	te of So	il Sample II	)				
					TER PARAI	T	<u> </u>			
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   1	URBIDITY
				***************************************			1			
	tinggy Mak Phanabaur (170 de daes)	MA and the or to constitute		ENERGISTA CONTRACTOR	SELECTION AND CONTRACTOR	Duchsel very a real to the second through	Darby Code Andre	niewanitako, ta jedi <b>na ma</b> nasa.	i i ang Pang	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
		···-··································		MON	ITORING F	EADINGS		·	<del></del>	
		HANBY SCREENING								
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)				
BG=Background:	BZ=Breath	ina Zone	e: BH=	Boreho	ie: NR=No	Readings; HS=Hea	adspace	e: S=Sample	(uncor	ntained)
a the Call of the Call Switch Call of the	ratio de la la la la la la la la la la la la la		VARVA	itte ja seera ja		No. of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	aopao.		(anoor	italiioa)
	····			CHECK	ANALYSE	S REQUESTED				
			BARF	ROW LA	\B			ANCHO	PRAGE	LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL		· · · · · ·	WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	m!		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
				<del>.</del>		TSS		250 ml		
						TOC		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
						1			l <u></u>	
[		<u> </u>				<u></u>	L	L		1

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

			SA	MPLE	D: <u>LON-S</u> T	10-SW02				
RADAR STATION: Poin	nt Lonely		W	EATHER	R: <u>Fog, 40°</u>	F				
SITE/AOC: ST10 Diesel	l Tank		_ FE	ET FRO	M FIXED F	POINT:	MAG	NETIC HEAD!	NG: S	SE
FIXED POINT: Base c	enter so	utheast c	orner	of berm						
SAMPLE MATRIX: 🗌 S	Soil (S)	□ s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>DP</u>										
TIME SAMPLED: 12:00	0		DE	PTH O	SAMPLE	(feet):				
SAMPLE DESCRIPTION	I/COMMI	ENTS:						***		
SAMPLING METHOD: [	Drip bott	les								
QA/QC SAMPLES COLL			auinm	ent Blar	ık (ER)		tra Voli	ımoe		
Trip Blank (TB)	LLOILD.					ID				
☐ Ambient Condition E	Blank (AF	3) 🗆 B	enlicat	e of So	il Samnle II	ם				-
		-, <u> </u>								
	511				TER PARA	<u> </u>	Т			
	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   -	TURBIDITY
12:05	8.2		790			4.0°C	ļ		_   .	<1.0
					· · · · · · · · · · · · · · · · · · ·					
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						HANBY SCREEN	ling			WW 14 W
TIME P	ID READ	ING (ppr	m)	CG/LE	L (%)	(standard/ppm)				
BG=Background; BZ	:=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample	uncoi	ntained)
Section Commence Management of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the s	the second second		(MARKET 1986) 	CHECK	ANALYSES	S REQUESTED	7486-060445	term of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Rikanski († 3. s. j.). 1 km sty
				ROW LA		, nedozores		ANCHO	DAG	I AD
								ANGIC	HAGE	LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		W	ATER		SOIL			WATER		SOIL
TPH		1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB						SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020						TDS	1	250 ml		
						TSS	1	250 ml		
						тос	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>8-27-93</u>			SA	MPLE I	D: LON-ST	Γ10-SD07					
RADAR STATION: <u>F</u>											
SITE/AOC: ST10 Die							MAG	NETIC HEADIN	G: <u>s</u>	W	
FIXED POINT: <u>Base</u>	of southwe	est corner	of ber	m,							
SAMPLE MATRIX: [	☐ Soil (S)	Se Se	edimer	nt (SD)		Surface Water (SW)		Groundwater (	GW)		
SAMPLERS: <u>JB</u>											
TIME SAMPLED: 1											
SAMPLE DESCRIPTI	ON/COMM	ENTS: S	ee ST1	10-SD0	2, replicate	of ST10-SD02					
SAMPLING METHOD	D: Disposal	ble scoon	and a	auger							
					nk (FB)	□ OA/OC Ex	tra V∩I	umes			
☐ Trip Blank (TB)			Equipment Blank (EB)								
☐ Ambient Condition	on Blank (Al	B) <b>I</b> R	eplicat	e of So	il Sample II	D LON-ST02-SD02			-		
					TER PARA						
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVITY	, ,	URBIDITY	
	1		CONDUCTIVITY						_	0.10.0111	
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									_		
				- 700- 100 ···							
				MON	ITORING F	EADINGS	es a production of the second				
						HANBY SCREEN	VING				
TIME	PID READ	DING (ppr	m) CG/LEL (%)		EL (%)	(standard/ppm)					
							***********				
BG=Background:	B7=Breath	ina Zone	· BH=	Boreho	le: NR-No	Readings; HS=Hea	denac	a: S=Sample (	ıncor	atainad)	
			Pristonia 4 (g)	en Schlieberkel ing	· · · · · · · · · · · · · · · · · · ·	e same en en en en en en en en en en en en en	uspac	e, 3-Sample (C	IIICOI	itairieu)	
	<del></del>	<u> </u>	<b>J</b> (	CHECK	ANALYSE	S REQUESTED		r		*	
			BARF	OW LA	\В			ANCHO	RAGE	LAB	
ANALYSES	1		CON	TAINEF	S	ANALYSES	1	CONT	AINE	RS	
		W	ATER		SOIL			WATER	-	SOIL	
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml	<del></del>	4 oz	
РСВ						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 ı	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	<del></del>					TDS		250 mi			
						TSS		250 ml			
			****			тос		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	
				****						2 7 0 02	
					<b></b>		Ì				

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE INACTIVE LANDFILL (LF11)/VEHICLE STORAGE AREA (SS14)

DATE: <u>08/26/93</u>			SAMPLE	ID: LON-LE	11-S01					
RADAR STATION: P	ADAR STATION: Point Lonely WEATHER: Cloudy, 36°F  ITE/AOC: LF11 Inactive Landfill FEET FROM FIXED POINT: MAGNETIC HEADING: SW									
SITE/AOC: LF11 Ina	ctive Landf	illF	EET FRO	OM FIXED F	POINT:	MAG	NETIC HEADI	NG: S	W	
FIXED POINT: 18 pa	aces from th	ne south end	and 4 pa	ices from th	e west end on the l	andfill.				
SAMPLE MATRIX:	Soil (S)	☐ Sedim	ent (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: <u>DP, M</u>	L									
TIME SAMPLED: 14										
SAMPLE DESCRIPTI	ON/COMM	ENTS: Brown	n, moist s	sand, some	fine gravel.					
2445					W-11					
SAMPLING METHOD										
QA/QC SAMPLES C	OLLECTED				☐ QA/QC Ex	tra Vol	umes			
☐ Trip Blank (TB)	D) ( (A)				e ID					
☐ Ambient Condition	on Blank (Al	B) 🔳 Replic	ate of Sc	oil Sample II	D <u>LON-LF11-S05</u>					
			WA	TER PARA	METERS					
TIME	PH	co	NDUCTI	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ -	TURBIDITY	
				****				$\neg$		
						+				
						-				
			Ja Allenderen norde							
			ИОМ	NITORING F	EADINGS		Marana ay ing amatanan ay is	activity to common		
					HANBY SCREET	JING		1		
TIME	PID READ	DING (ppm)	CG/LI	EL (%)	(standard/ppm)					
						· · · · · · · · · · · · · · · · · · ·				
			J				1	l		
BG=Background;	BZ=Breath	ing Zone; BH	=Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncoı	ntained)	
		•	CHECK	ANALYSE	S REQUESTED		2004 - Principal Bessel (2007) Self de c	erenie besteu		
		BAI	RROW LA	AB			ANCHO	RAGE	LAB	
ANALYSES	/	CO	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS	
		WATE		SOIL	ATTALTOLO		WATER	174114	SOIL	
TPH	1	1 liter		8 oz	VOC (8260)					
РСВ	1	i iitei		8 02			3 x 40 ml		4 oz	
PESTICIDES					SVOC (8270)		1 liter	<del></del>	8 oz	
HVOC 8010	/	1 x 40 ml	<u> </u>	4 oz	TOTAL METALS		1 liter		8 oz	
VOO DIEV coop										
VOC-BTEX 8020	1				TDS		250 ml			
					TSS	-	250 ml			
					тос		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	
							·		L	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/26/93</u>			SAMPLE :	ID: <u>LON-LF</u>	11-S02						
RADAR STATION: P	DAR STATION: Point Lonely WEATHER: Cloudy, 36°F  E/AOC: LF11 Inactive Landfill FEET FROM FIXED POINT: MAGNETIC HEADING: SW										
SITE/AOC: LF11 Inac	ctive Landf	ill	FEET FRO	OM FIXED F	POINT:	_ MAG	NETIC HEAD	ING: _	SW		
FIXED POINT: 67 pa	ces from t	he south end	and 4 pa	ices from th	e west end of the la	ındfill.					
SAMPLE MATRIX: R		☐ Sedi	ment (SD)		Surface Water (SW)		Groundwater	(GW)			
TIME SAMPLED: 14			DEPTH O	E SAMPLE	(feet): 4-6"						
SAMPLE DESCRIPTION						1					
						•	· · · · · · · · · · · · · · · · · ·				
SAMPLING METHOD	: <u>Disposa</u>	ble scoop									
QA/QC SAMPLES CO	OLLECTED	: 🗌 Equi	pment Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes				
☐ Trip Blank (TB)		☐ Dupl	icate of W	ater Sample	: ID						
Ambient Conditio	n Blank (A	B) 🗌 Repl	cate of Sc	oil Sample II	D						
			WA	TER PARA	METERS						
TIME	PH	C	ONDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ	TURBIDITY		
						1					
						<del> </del>	100.11.1				
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			MON	NTORING F	EADINGS						
TIME	PID READ	DING (ppm)	CG/L	EL (%)	HANBY SCREEN (standard/ppm)	NING					
								$\neg \vdash$			
BG=Background;	BZ=Breath	ning Zone; B	H=Boreho	ole; NR=No	Readings; HS=Hea	adspac	I e; S=Sample	l (uncor	ntained)		
Tikkakean alla masi sebesiketika likulika disekatik	er er er er er er er er er er er er er e	CONTROL OF THE SECOND	✓ CHECK	ANALYSE	S REQUESTED		74 184 12 3 4 5 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Distance industrial of Tentes		
		ВА	ARROW LA	AB			ANCHO	ORAGE	E LAB		
ANALYSES		C	ONTAINER	26	ANALYSES	,	CON	TAINE	DC		
AIVALISES		WAT		SOIL	ANALYSES	<i>y</i>	WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 mi		4 oz		
РСВ	1	1		0 02	SVOC (8270)		1 liter		8 oz		
PESTICIDES		1			TOTAL METALS		1 liter		8 oz		
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020 ✓ TDS 250 ml											
			<del></del>		TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/26/93</u>			SA	AMPLE I	D: LON-LF	11-S03				
		nt Lonely WEATHER: Cloudy, 36°F								
SITE/AOC: LF11 Inac	ctive Landfi	ill	FE	ET FRO	)M FIXED F	OINT:	MA	GNETIC HEA	DING:	N
FIXED POINT: North	end of land	dfill on th	ne sout	th outfal	II	-				
SAMPLE MATRIX:	Soil (S)	□s	Sedime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: DP, ML									`	
TIME SAMPLED: 15										
SAMPLE DESCRIPTION	ON/COMM	ENTS: <u>B</u>	3rown :	sand an	<u>id medium </u>	to fine gravel.				
										· · · · · · · · · · · · · · · · · · ·
SAMPLING METHOD										
QA/QC SAMPLES CO	)LLECTED:									
☐ Trip Blank (TB)	-· · /A1		)uplicat	te of Wa	ater Sample	ID				
☐ Ambient Condition	n Blank (Al	3) 🗌 R	leplicat	te of So	il Sample II	)				
				WA	TER PARA	METERS				
TIME	PH		CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ 7	TURBIDITY
							<del>                                     </del>		$\neg$	
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						-	<del> </del>			
	Cont. Cont. The control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr		ili Kele e v	MON	IITORING R	EADINGS			Marchael (Marchael )	3998
	****					HANBY SCREEN			T	
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)	VII V			
									$\top$	
					7' 4		<del></del>			
BG=Background; [	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	idspace	e; S=Sample	(uncor	ntained)
			1	CHECK	ANALYSES	S REQUESTED				
			BARE	ROW LA				ANCHO		= ! A B
				<del></del>						
ANALYSES	<b>/</b>		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB	1					SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS	1	1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	OC-BTEX 8020 ✓					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
<u> </u>					<u> </u>					

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/26/93</u>			SAMPLE I	D: LON-LF	11-S04					
ADAR STATION: Point Lonely WEATHER: Cloudy, 36°F  ITE/AOC: LF11 Inactive Landfill FEET FROM FIXED POINT: MAGNETIC HEADING: N										
					POINT:	_ MAG	ENETIC HEAD	NG: _!	ν	
FIXED POINT: North	end of lan	dfill on the r	orth outfal	l					,	
SAMPLE MATRIX: SAMPLERS: DP, M		☐ Sedi	ment (SD)		Surface Water (SW)		Groundwater	(GW)		
TIME SAMPLED: 15			DEPTH O	F SAMPLE	(feet): 0-6"					
SAMPLE DESCRIPTI										
	- , ,		σασ, σ	<u> </u>						
SAMPLING METHOD	): <u>Disposal</u>	ole scoop								
QA/QC SAMPLES C	OLLECTED	-	•							
☐ Trip Blank (TB)					e ID					
Ambient Condition	on Blank (Al	3) 🗌 Repl	icate of Sc	il Sample II	D					
			WA	TER PARA	METERS					
TIME	PH	С	ONDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ   Τ	URBIDITY	
						<del> </del>				
			·			<u></u>	· · · · · · · · · · · · · · · · · · ·			
	<del> </del>					<del> </del>	A	-		
			hite	A STATE OF BRIDGE AND CONTRACTOR					basisanse freeziet in the construction of	
			MON	IITORING F	READINGS	3020798.100020.220			<b>6468 •</b> 14 € 1	
					HANBY SCREEN	IING				
TIME	PID READ	ING (ppm)	CG/LE	EL (%)	(standard/ppm)					
						······································				
BG=Background	B7=Breath	ing Zone: B	H=Borebo	ile: NR=No	Readings; HS=Hea	dspace	e: S=Sample	(uncor	ntained)	
				25	edenistiska alta oli per i programa i solo si solo si solo si solo si solo si solo si solo si solo si solo si	a de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la consta	o, o — odmpio	(dillooi	namoa)	
	<u> </u>		✓ CHECK	ANALYSE	S REQUESTED		F			
		B	ARROW LA	\B			ANCHO	RAGE	LAB	
ANALYSES	1	С	ONTAINEF	RS	ANALYSES	1	CON	TAINE	RS	
		TAW	ER	SOIL			WATER		SOIL	
ТРН	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB	1				SVOC (8270)		1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020					TDS		250 ml			
					TSS		250 ml			
					тос		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	
			·····							

Preservation: HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/26/93</u>			SA	MPLE I	: LON-LF	11-S05				
	DAR STATION: Point Lonely WEATHER: Cloudy, 36°F  E/AOC: LF11 Inactive Landfill FEET FROM FIXED POINT: MAGNETIC HEADING: SW									
							MAG	NETIC HEADII	۱G: <u>S</u>	W
FIXED POINT: 18 pa	ces from th	e south	end ar	nd 4 pac	es from th	e west end on the la	andfill.			
SAMPLE MATRIX:	Soil (S)	□ s	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>DP, MI</u>	_									
TIME SAMPLED: 14									·····	
SAMPLE DESCRIPTION	ON/COMME	ENTS: B	rown,	moist s	and, some	fine gravel.				
CAMPLING METLOC	V. Diamanak									
SAMPLING METHOD					1 (55)	T 0.400 =				
QA/QC SAMPLES CO										
<ul><li>☐ Trip Blank (TB)</li><li>☐ Ambient Conditio</li></ul>						ID				
Ambient Conditio	II DIAIIK (AL	) <b>==</b> n	eplicat	e 01 30	i Sampie ii	LON-LFTT-SUT				
				WA	TER PARA	METERS	,			
TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ Τ	URBIDITY
		ĺ								
							<del> </del>			
				***************************************			-			
	romani mana bibanangia.	Astron i solutare	Ac 7WY LLCONG		nastrasia					
				MON	ITORING R	EADINGS				,
						HANBY SCREEN	JING			
TIME	PID READ	ING (ppi	m)	CG/LE	L (%)	(standard/ppm)				
							<del></del>			
									<u> </u>	
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	e; NR=No	Readings; HS=Hea	dspac	e; S=Sample	(uncor	itained)
			1	CHECK	ANALYSE	S REQUESTED				
			BARF	ROW LA	В			ANCHO	RAGE	LAB
ANALYSES			CON	TAINER	<u> </u>	4414050		CON	TAINE	DC
ANALISES	1					ANALYSES				
		W	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB	1					SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
				•		TSS		250 ml		
					*****	тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
						T	<b>-</b>		·	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

RADAR STATION: <u>P</u>											
SITE/AOC: LF11 Inac						MA	AGNETIC HEA	DING	: <u>195°</u>		
FIXED POINT: The s											
SAMPLE MATRIX: SAMPLERS: <u>DP</u>		Sedin			Surface Water (SW)		Groundwater	(GW)			
TIME SAMPLED: 14	:00:		DEPTH O	F SAMPLE	(feet): 4-6"						
SAMPLE DESCRIPTION	ON/COMM	IENTS: Wet,	orown sa	nd, so <mark>me f</mark> i	ne gravel.						
SAMPLING METHOD	: Disposa	ble scoop									
QA/QC SAMPLES CO											
☐ Trip Blank (TB)					e ID						
Ambient Condition	n Blank (A	.B) ∐ Replic	ate of So	il Sample II	D						
			WA	TER PARA	METERS						
TIME	PH	CC	NDUCTI	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ   -	TURBIDITY		
			МОМ	ITORING F	READINGS		·				
TIME PID READING (ppm) CG/LEL (%) (standard/ppm)											
BG=Background;	BZ=Breat	ning Zone; Bh	 I=Boreho	ole; NR=No	Readings; HS=Hea	ıdspace	: e; S=Sample	L (uncoi	ntained)		
					S REQUESTED	CATALOG STAN			Kimenia Jaron (1917)		
		1	RROW LA		I		ANCHO	RAGE	- LAB		
		0.5		~~~~~	1						
ANALYSES	_ /		NTAINEF	rs	ANALYSES	1	CON	TAINE	:RS		
		WATE	R	SOIL	<u>.</u>		WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
PCB	1				SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020         ✓         TDS         250 ml											
					TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		
	-										

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/26/93</u>			SA	MPLE I	D: <u>LON-LF</u>	11-SD02					
	ADAR STATION: Point Lonely WEATHER: Cloudy, mild breeze  ITE/AOC: LF11 Inactive Landfill FEET FROM FIXED POINT: MAGNETIC HEADING: N										
SITE/AOC: LF11 Inac	ctive Landfi	ill	FE	ET FRO	M FIXED F	POINT:	_ MAG	ENETIC HEAD	ING: _	N	
FIXED POINT: The s	econd drai	nage dito	ch from	south	to north.						
SAMPLE MATRIX:				nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: DP, MI											
TIME SAMPLED: 14							201 1				
SAMPLE DESCRIPTION	ON/COMM	EN 13. <u>1</u>	ne sec	iment is	s a mixture	or sand and graver	with pia	ant material.			
SAMPLING METHOD	);										
QA/QC SAMPLES CO	OLLECTED	: 🗆 E	quipm	ent Blar	nk (EB)	☐ QA/QC Ex	tra Vol	umes			
☐ Trip Blank (TB)			uplicat	te of Wa	ater Sample	: ID					
Ambient Condition	n Blank (Al	3) 🗌 R	teplicat	te of So	il Sample II	<u> </u>					
				WA	TER PARAI	METERS					
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ   1	URBIDITY	
				.v.u	794.4						
							1				
							1			<del></del>	
		to make the second	C. Ses 20	MON	UTODINO S	FADINGS	A STATE STREET	S. research			
				MON	ITORING P	EADINGS		T		,	
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING		ŀ		
									$\top$		
BG=Background;	BZ=Breath	ina Zone	 e: BH=	:Boreho	le: NR=No	Readings; HS=Hea	dsnac	l S=Sample	Luncor	ntained)	
	ika ya Suga ditalka dilipiku		kani bi	www.hangola	taka <mark>kalinga</mark> jaran san	a a service and a service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the ser	wii-l-wii	o, o-oampic	(dilicol	tuniou)	
			/	CHECK	ANALYSES	S REQUESTED					
			BARE	ROW LA	.В			ANCHO	RAGE	LAB	
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS	
		W	/ATER		SOIL			WATER		SOIL	
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB	1					SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
		· · · · · · · · · · · · · · · · · · ·				TSS		250 ml			
						TOC		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO $_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/26/93</u>	<del> </del>		_SAMPLE	D: LON-LF	11-SD03						
RADAR STATION: P	ADAR STATION: Point Lonely WEATHER: Cloudy, mild breeze  ITE/AOC: LF11 Inactive Landfill FEET FROM FIXED POINT: 20 MAGNETIC HEADING: N										
						MA	GNETIC HEAD	DING:	N		
FIXED POINT: The f	ourth draina	age ditch fr	om the sout	th to north a	20 feet out.						
SAMPLE MATRIX:	, ,	Sec	diment (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: DP, M											
TIME SAMPLED: 15											
SAMPLE DESCRIPTI	ON/COMM	ENTS: <u>Sec</u>	diment is a i	mixture of s	and and gravel.						
SAMPLING METHOD	D: <u>Disposal</u>	ole scoop									
QA/QC SAMPLES C	OLLECTED	: 🗌 Equ	uipment Blai	nk (EB)	☐ QA/QC Ex	tra Vol	umes				
☐ Trip Blank (TB)			•		ID						
☐ Ambient Condition	n Blank (Al										
		·····		TER PARAI							
TIME	Tau					T	0.510.05.41				
TIME	PH		CONDUCTIV	/II Y	TEMPERATURE	SPE	CIFIC GRAVIT	Y 1	FURBIDITY		
						<del>                                     </del>			-		
a man and an an an an an an an an an an an an an	Bila kalabatata	(Medical Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Cont		anacan s					Total Comments		
			MON	ITORING R	EADINGS	,		-			
					HANBY SCREEN	NING		j			
TIME	PID READ	ING (ppm)	) CG/LE	EL (%)	(standard/ppm)						
					1						
BG=Background;	BZ=Breath	ing Zone; (	BH=Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample	 (uncor	ntained)		
		Normal In Librarian	✓ CHECK	ANALYSES	S REQUESTED	eet a fold 1 sat		antina di Manta	Control of Control and American		
			BARROW LA		I		ANICUIC				
		L	DATITIOVV LA	\U			ANCHO	TAGE	LAD		
ANALYSES	1		CONTAINER	S	ANALYSES	1	CON	TAINE	RS		
		WA	TER	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
PCB	1				SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010	1	1 x 40 m	ı	4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1	<u></u>			TDS		250 ml				
					TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/26/93</u>			SAM	IPLE I	D: <u>LON-LF</u>	11-SW01				
RADAR STATION: PO	oint Lonely		_ WEA	THER	: Cloudy,	40°F				
SITE/AOC: LF11 Inac	ctive Landfi	ill	_ FEE	T FRO	M FIXED P	OINT:	MAG	NETIC HEADI	VG: N	J
FIXED POINT: Draina										
SAMPLE MATRIX:		☐ Sec	diment	(SD)		Surface Water (SW)		Groundwater	(GW)	"
SAMPLERS: DP, ML										
TIME SAMPLED: 14										
SAMPLE DESCRIPTION	JN/COMMI	ENTS: Wa	ater is c	clear w	vith an oily	sheen present. A lo	ot of tu	ndra grass in v	water.	
SAMPLING METHOD	: Disposat	ole scoop								
QA/QC SAMPLES CO	DLLECTED	: 🗌 Equ	uipmer	nt Blan	ık (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)						ID				
☐ Ambient Condition	n Blank (Al	B) □ Rep	plicate	of Soi	Sample ID	)				
				WAT	TER PARAM	METERS				
TIME	PH	(	CONDU	UCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ 7	URBIDITY
14:00	8.2	1	10			6°C	<u> </u>			
				MON	TORING R	EADINGS	5160 411, ASSAURE		* ************************************	**************************************
	515 5545					HANBY SCREEN	NING			
TIME	PID REAL	OING (ppm)	) (	CG/LE	L (%)	(standard/ppm)				
BC. Beelvereund /	D. Dun eth									
BG=Background; f	bz=bream	ing Zone; i	asses to the second	Sand Carlo	e Edwindler in 1998	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	adspac	e; S=Sample	(uncor	ntained)
			✓ Ch	HECK	ANALYSES	REQUESTED		,		
		Е	BARRO	)W LA	В			ANCHO	RAGE	LAB
ANALYSES	1	(	CONTA	AINER	S	ANALYSES	1	CON	TAINE	RS
		WA	TER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
PCB	1					SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS	1	1 liter		8 oz
HVOC 8010  ✓ 1 x 40 ml										
VOC-BTEX 8020	1					TDS	1	250 ml		
				-		TSS	1	250 ml		
						тос	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/26/93</u>			SA	MPLE I	D: <u>LON-L</u> F	11-SW02				
RADAR STATION: <u>P</u>	oint Lonely		WI	EATHEF	R: Cloudy,	mild wind				
SITE/AOC: LF11 Ina	ctive Landf	ill	FE	ET FRO	M FIXED F	POINT:	MAG	NETIC HEADI	VG: <u>N</u>	1
FIXED POINT: <u>Drain</u>	age No.3 c	ounting f	rom so	outh to	north.					
SAMPLE MATRIX: [ SAMPLERS: <u>DP, M</u> I				nt (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 14				PTH O	E SAMPLE	(feet): Surface to 6	inches			
SAMPLE DESCRIPTION						(rect). <u>Garrage to o</u>	11101100			-
SAMPLING METHOD	: <u>Disposa</u>	able scoc	p.					****		
QA/QC SAMPLES CO	OLLECTED									
☐ Trip Blank (TB)						e ID				
☐ Ambient Conditio	n Blank (Al	B) 🗆 R	teplicat	te of So	il Sample II	D		******		
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y 1	URBIDITY
	8.3					8°C	ļ	,		
1										
				MON	ITORING F	READINGS				
TIME	PID READ	DING (nn	m)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING			
111012	TID TICKE	уп <b>та</b> (рр	111)	00,22	- ( /0 )	(dtaridard/ppiri)				
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	ıdspac	e; S=Sample	uncor	ntained)
	elasar ett som etta	10 24 Eastern	J	CHECK	ANALYSE	S REQUESTED	Para Tri bir	rete destat de la la la la la la la la la la la la la		
			BARF	ROW LA	ιB			ANCHO	RAGE	LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	/	CON	TAINE	RS
		W	/ATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB	1					SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020 ✓						TDS		250 ml		
		• • • •			TSS		250 ml			
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
		<u> </u>								

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/26/93</u>	/26/93 SAMPLE ID: LON-LF11-SW03											
RADAR STATION: Po	oint Lonely	nt Lonely WEATHER: Cloudy, 40°F										
SITE/AOC: LF11 Inac	ctive Landfi	ill	_ FE	ET FRO	M FIXED F	OINT:	MA	GNETIC HEAL	DING:	N		
FIXED POINT: Draina	age No.4 c	ounting fr	om so	outh to	north.							
SAMPLE MATRIX:	] Soil (S)	☐ Se	edimer	nt (SD)	<b>=</b> :	Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: <u>DP, ML</u>		p-1										
TIME SAMPLED: 15	:00		DE	PTH O	SAMPLE	(feet):						
SAMPLE DESCRIPTION	ON/COMMI	ENTS:										
									<del></del>			
SAMPLING METHOD	•				. (55)							
QA/QC SAMPLES CO												
☐ Trip Blank (TB)	n Dinnie (Al	ט 🗆 טי	uplicat	e of Wa	iter Sample	ID						
Ambient Condition	n Blank (Al	3) LI RE	epiicat	e of So	ıı Sample II	)	· · · · · · · · · · · · · · · · · · ·					
	_			WA	TER PARA	METERS						
TIME	PH		CONI	DUCTIV	TITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY		
	8.0		20			8°C						
				******								
									_			
	angilipra. Arau ana Attain in		Mar Marian	alle finities la constitu	escipe and a females	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	64 a. la 20124. (	Francisco Delicito (Lacifornio		tuli ng Pangagan		
				MON	ITORING R	EADINGS						
						HANBY SCREEN	NING					
TIME	TIME PID READING (ppm				L (%)	(standard/ppm)						
									$\top$			
			1					<u> </u>	[			
BG=Background; I	BZ=Breath	ing Zone;	BH=	Boreho	le; NR=No	Readings; HS=Hea			uncor	ntained)		
			1	CHECK	ANALYSES	S REQUESTED						
			BARF	ROW LA	.В			ANCHORAGE		LAB		
ANALYSES			CON	TAINER	9	ANALY050		CONI	TAINE	DC		
ANALTSES				TAINEL		ANALYSES	1	CON	IAINE			
		W.	ATER		SOIL			WATER		SOIL		
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz		
РСВ	1					SVOC (8270)		1 liter		8 oz		
PESTICIDES						TOTAL METALS		1 liter		8 oz		
HVOC 8010	1	1 x 40 r	ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1					TDS		250 ml				
						TSS						
						тос		250 ml				
		<b></b>						500 ml		4 oz		
						TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE MODULE TRAIN (SS12)

DATE: <u>08/24/93</u>			SA	MPLE!	D: <u>LON-SS</u>	S12-S01					
RADAR STATION: Point Lonely WEATHER: Cloudy, rain, 30°F											
SITE/AOC: SS12 Mo	dule Train		FE	ET FRO	OM FIXED F	POINT: 12	N	AGNETIC HE	ADING	3: <u>100°</u>	
FIXED POINT: North	west corne	r founda	tion po	ost.							
SAMPLE MATRIX:			edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: <u>DP, RT</u>		-									
TIME SAMPLED: 17											
SAMPLE DESCRIPTION	ON/COMMI	ENTS: <u>F</u>	ine sa	nds and	d pea size o	gravel. (Photo 14, L	onely F	loll 1.)			
SAMPLING METHOD	: Disposat	ole scoo	p. clea	ın alove	S						
QA/QC SAMPLES CO						□ OA/OC Ev	tra Voli	imos			
☐ Trip Blank (TB)	J					e ID					
☐ Ambient Condition	n Blank (Al										
	I				TER PARA	1	1				
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	<u> </u>	TURBIDITY	
		-51		-			<del> </del>		_	<u> </u>	
and the Control State of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the s	on the Children of the Control	ప్రాప్రెక్టి ఆగోగ్గి (Xadi) సంయత్నిక	untikoh hadijasi	data dala da	State Section 1798 process		entre en en en commente		rollen Sereice	TOPIC AND THE SECOND	
MONITORING READINGS											
	HANBY SCREENING										
TIME		ING (pp	NG (ppm) CG/LEL (%) (standard/ppm)							W Water	
17:30	BZ=0			0		NR			$\perp$		
				_							
BG=Background; (	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspace	e: S=Sample (	uncor	ntained)	
	100 mg 24 mg 4		50.00 Feb.	<u> </u>	, the carrier of the	S REQUESTED	80 <i>0</i> 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Performance on the		
						3 NEQUESTED					
			BARI	ROW LA	/R	1		ANCHORAG		iE LAB	
ANALYSES	1		CON	ITAINEF	RS	ANALYSES	1	CON	AINE	RS	
		V	VATER		SOIL			WATER		SOIL	
TPH	8	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB						SVOC (8270)		1 liter		8 oz	
PESTICIDES						TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1					TDS		250 ml			
				-1.10		TSS		250 ml			
		1131.1				TOC		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/24/93</u>			SAMPLE I	D: LON-SS	S12-S02						
RADAR STATION: Point Lonely WEATHER: Cloudy, rain, 30°F											
SITE/AOC: SS12 Module Train FEET FROM FIXED POINT: 26 MAGNETIC HEADING: 5°  FIXED POINT: The southwest end of foundation post.											
FIXED POINT: The s	outhwest e	nd of founda	tion post.								
SAMPLE MATRIX:	Soil (S)	☐ Sedin	nent (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: <u>DP, RT</u>											
TIME SAMPLED: 17											
SAMPLE DESCRIPTION	ON/COMME	ENTS: <u>Fine s</u>	sands and	d pea size c	ravel. (Photo 15, L	onely F	Roll 1).				
SAMPLING METHOD	· Disnosat	ale scoop, ch	an alove	9							
QA/QC SAMPLES CO					□ QA/QC Ex	tra Voli	ımes				
☐ Trip Blank (TB)		• •		, ,	ID						
☐ Ambient Condition	n Blank (AE										
			WA	TER PARAI	METERS	. 2.0-W. 1-W		<del>.</del>			
TIME	PH		NDUCTIV		<u> </u>	CDE	CIFIC GRAVIT	<u> </u>	TIDDIDITY		
IIIVIE	PH			/II Y	TEMPERATURE	SPE	CIFIC GRAVII	Y   '	URBIDITY		
			·	···		<b>.</b>					
MONITORING READINGS											
TIME	PID READ	NG (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	IING					
17:35	BZ=0		0		NR						
BG=Background:	BZ=Breath	ina Zone: BH	l=Boreho	le: NR=No	Readings; HS=Hea	ıdspacı	e: S=Sample (	uncor	ntained)		
		Samuel es es carcaracter de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la const			and a second relation of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Section Edition		COSTONIA.			
			/ CHECK	ANALYSES	S REQUESTED						
		BA	RROW LA	\B	]		ANCHORAGE		LAB		
ANALYSES	1	cc	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS		
		WATE	R	SOIL			WATER		SOIL		
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 mi		4 oz		
РСВ					SVOC (8270)		1 liter		8 oz		
PESTICIDES					TOTAL METALS		1 liter	·	8 oz		
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	J				TDS		250 ml				
					TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		: 2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCI to pH <2; metals:  $HNO_3$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/24/93</u>			_SAMPLE	ID: LON-SS	S12-S03					
RADAR STATION: Point Lonely WEATHER: Cloudy, rain, 30°F										
SITE/AOC: SS12 Module Train FEET FROM FIXED POINT: 48 MAGNETIC HEADING: 145°										
FIXED POINT: From	the southw	vest corner	foundation	post.						
SAMPLE MATRIX:		☐ Sec	diment (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: <u>DP, R1</u>										
TIME SAMPLED: 17										
SAMPLE DESCRIPTION	ON/COMM	ENTS: <u>Dar</u>	rk soil, heav	y organic m	natter. 20% gravel.	(Photo	13, Lonely Ro	oll 1.)		
SAMPLING METHOD	). Disposal	hle scoon	clean glove	ie.						
QA/QC SAMPLES CO					D 04/00 F					
☐ Trip Blank (TB)	JEEGIED									
	n Blank (Al	B) 🗆 Dar	dicate of Sc	aler Sample	ID					
☐ Ambient Condition Blank (AB) ☐ Replicate of Soil Sample ID										
	Υ	<del> </del>	WA	TER PARA	METERS		*****			
TIME	PH	(	CONDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ -	TURBIDITY	
						<del> </del>		+		
MONITORING READINGS										
	HANBY SCREENING									
TIME		ADING (ppm) CG/LEL (%) (standard/ppm)								
17:20	BZ=0		0	- 1811	NR					
BG=Background;	BZ=Breath	ing Zone; E	BH=Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample	(uncor	ntained)	
	ada anni gerrar e propinsi angal	Berline (1866) (Belline 1866)		on designation of	S REQUESTED	sõedi et ele elemen.	A Charleston Constitution			
		-	BARROW LA		, in a second		ANOLIC			
							ANCHORAG		E LAB	
ANALYSES	1		CONTAINER	RS	ANALYSES	1	CON	TAINE	RS	
		WA	TER	SOIL			WATER		SOIL	
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
PCB					SVOC (8270)	1	1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter	1.11	8 oz	
HVOC 8010		1 x 40 ml	ı	4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1				TDS		250 ml			
					TSS		250 ml			
					тос		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/24/93</u>		S/	AMPLE I	D: <u>LON-SS</u>	S12-2S04-1				
RADAR STATION: <u>P</u>	oint Lonely	w	'EATHEF	R: Cloudy,	mild wind				
· · · · · · · · · · · · · · · · · · ·				OM FIXED F	POINT: <u>19</u>	N	MAGNETIC HEA	DING	i: <u>180°</u>
FIXED POINT: 19 fee									
SAMPLE MATRIX: 📱 SAMPLERS: RT, MI		☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater (0	GW)	
TIME SAMPLED: 14		D	EPTH O	F SAMPLE	(feet): 1				
					avel. Collected at 1	foot un	der the tundra.		
SAMPLING METHOD									
QA/QC SAMPLES C	OLLECTED				☐ QA/QC Ex				
Trip Blank (TB)					e ID				
Ambient Condition	n Blank (Al	B) 🗌 Replica	te of Sc	il Sample II	D				
			WA	TER PARA	METERS				
TIME	PH	CON	NDUCTI\	/ITV	TEMPERATURE	SPE	CIFIC GRAVITY	,   ,	URBIDITY
THAIL		001	100011	7111	TEIVII ETIXTOTIE	1 01 2	OII TO GITAVITT	+	OTIDIDITI
						<del> </del>			
						1			
**************************************				1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 - 1906 -		200 200 200 200 200 200 200 200 200 200	preside second de la contraction		SAME AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY O
			MON	ITORING F	READINGS		T.	<del></del>	
		>W.O. /	00"		HANBY SCREEN	IING			
TIME	ME PID READING (ppm) CG/LEL (%) (standard/ppm)								
		7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1							
								-	
BG=Background	BZ=Breath	ing Zone: BH:	=Boreho	ole: NR=Nc	Readings; HS=Hea	dspace	e: S=Sample (r	ıncor	ntained)
l Da-Baokgroana,	of Marian	emater control of the	Borone	70, 111			o, o odmpio (c		
		<b>√</b>	CHECK	ANALYSE	S REQUESTED				
		BAR	ROW LA	<b>A</b> Β			ANCHORAGE LAB		LAB
ANIALVOTO		CON	NTAINERS		ANALYSES	1	CONTAINE		RS
ANALYSES					ANALTSES	,		/ III 4 C	
		WATER	? 	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020					TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz
		<u> </u>		<u> </u>		<u> </u>	<u> </u>		<u> </u>

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/24/93</u>				SA	MPLE	D: LON-S	S12-SD0	01				
RADAR STATION: Point Lonely WEATHER: Cloudy, rain, 30°F												
SITE/AOC: SS12 Module Train FEET FROM FIXED POINT: 48 MAGNETIC HEADING: 180° FIXED POINT: The southwest corner foundation post.												
FIXED POINT: T	he s	outhwes	t c	orner foundatio	n post.							
SAMPLE MATRIX	<b>K</b> : [	] Soil (S	3)	Sedimer Sedimer	nt (SD)		Surface	Water (SW)		Groundwater	(GW)	
SAMPLERS: DE	P, R	Γ										
TIME SAMPLED:	17	7:10		DE	PTH O	F SAMPLE	(feet): _	Sediment				
SAMPLE DESCR	RIPTI	ON/COM	M	ENTS: Coarse	sand a	nd gravel.	(Photo	12, Lonely	Roll 1.)			
044401410445												
SAMPLING MET						11-5/19/						
QA/QC SAMPLE		OLLECT	ΞD									
☐ Trip Blank (T	•	. 51	, <b>.</b> .	☐ Duplicat	e of Wa	ater Sample	ID					
Ambient Con	aitio	n Blank	(A)	B) LI Replicati	e of So	oil Sample II	)					
				***	WA	TER PARA	METERS	3				
TIME	РН		C	CONDUCTIVITY	TEM	1PERATURE	•	SPECIFIC	GRAVI	TY	TUR	BIDITY
16:59	8.4		9	30	5°C			Fresh Wat	er		.5 m	ıg/1000 ml
				188								<u></u>
		To Service Med. Mayork, soul-		Sound and Environment below to the control	Letina Maria	Complete Marchael (1987)	a ka hada daya ( ¹⁹⁸⁸ )	e e a maria de la composición de la composición de la composición de la composición de la composición de la co			and the last of	managa kaba
					MON	IITORING R	EADING	3S				
HANBY SCREENING												
TIME		PID RE	ΑC	DING (ppm)	CG/LE	EL (%)	(star	ndard/ppm)				
17:10		BZ=0			0		NR					
												*****
BG=Backgrou	ınd:	BZ=Brea	ath	ing Zone; BH=I	Boreho	le: NR-No	Readin	as: HS-Ho:	denace	a: S-Sample	(upper	tainod)
		Marie de marie de Sal			Boreno		rteadin		auspace	s, 3—Sample	(uncor	ilairieu)
				<b>√</b> (	CHECK	ANALYSES	REQU	JESTED				
				BARR	ROW LAB					ANCHORAGE I		LAB
ANALYSE	S	1		CONT	ITAINERS		AN	ALYSES	1	CON	TAINE	RS
				WATER		SOIL				WATER		SOIL
TPH		1		1 liter		8 oz	voc	(8260)		3 x 40 ml		4 oz
PCB				•				C (8270)		1 liter		8 oz
PESTICIDES			_					L METALS				
HVOC 8010			$\dashv$	1 v 40 ml		4		***************************************		1 liter		8 oz
li .	00		-	1 x 40 ml		4 oz		METALS		1 liter	-	
VOC-BTEX 8020         ✓         TDS         250 ml												
							TSS			250 ml		
							тос			500 ml		4 oz
							TCLP			2 liters		2 x 8 oz
								<del></del>				

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/05/93</u>			SA	MPLE I	D: <u>LON-SS</u>	S12-2SD02				
RADAR STATION: <u>P</u>	oint Lonely		WE	EATHER	R: Cloudy,	mild wind				
SITE/AOC: SS12 Module Train FEET FROM FIXED POINT: 30 MAGNETIC HEADING: 180°										G: <u>180°</u>
FIXED POINT: 10 fe	et from the	location (	of SW	01 and 9	SD01 in the	tundra.				
SAMPLE MATRIX: [ SAMPLERS: <u>RT, M</u>	` '	S S	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 1			DE	PTH O	FSAMPLE	(feet): 1				
SAMPLE DESCRIPTI						. ,			*******	
										,
SAMPLING METHOD	D: Scooped	d into jar								
QA/QC SAMPLES C	OLLECTED	: 🗆 E	quipm	ent Blar	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)			uplica	te of Wa	ater Sample	ID				
☐ Ambient Condition	on Blank (Al	3) 🗆 R	eplicat	te of So	il Sample II	)				
				WA	TER PARAI	METERS				
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥI	URBIDITY
					***************************************					
Policification and advantage of grant of Education of		* Tomes distants an		MON	ITORING R	EADINGS				Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la Casa de la
HANBY SCREENING										
TIME	PID READ	ING (pp	m)	CG/LE	EL (%)	(standard/ppm)	WING.			
					A					
BG=Background;	BZ=Breath	ing Zone	:; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspac	e; S=Sample	uncor	ntained)
			ſ	CHECK	ANALYSES	S REQUESTED	536631 <b>4 E</b>		Bertell Live	
				ROW LA				ANCHORAGE LAB		IAR
ANALVEE				TAINER		ANIALVOTO	_		TAINE	
ANALYSES		l				ANALYSES	/			F
			ATER		SOIL			WATER	<u> </u>	SOIL
TPH	/	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES				I		TOTAL METALS	-	1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020				<u> </u>		TDS		250 ml		
						TSS		250 ml		
						TOC		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/24/93</u>		SA								
RADAR STATION: F										
SITE/AOC: SS12 M	odule Train	FE	ET FROM	FIXED P	OINT: <u>48</u>	N	MAGNETIC HE	ADINO	3: <u>180°</u>	
FIXED POINT: The	southwest co	orner of the for	undation po	ost.		······································				
SAMPLE MATRIX: [		☐ Sedime	nt (SD)	<b>S</b>	Surface Water (S	(W)	Groundwater	(GW)		
SAMPLERS: DP, R		D			(6.1)					
TIME SAMPLED: 1										
SAMPLE DESCRIPTI		in is. <u>water is</u>	orangisn-γ	ellow wit	n siight organic i	matter. Fill	ters easily. (Pr	10to 12	!, Lonely Ro	
SAMPLING METHOI	D: Dipping t	oottles, filtered	TDS samp	le						
QA/QC SAMPLES C					☐ QA/QC	Extra Vol	umes			
☐ Trip Blank (TB)					ID					
☐ Ambient Condition	on Blank (AE	3) 🗌 Replica	te of Soil S	ample ID						
			WATE	R PARAM	METERS					
TIME	PH	CONDUCTI	VITY	ТЕМР	ERATURE	SPECIFI	C GRAVITY	TUI	RBIDITY	
16:59	8.4	930		5° C		Fresh W	ater	.5 r	nl/1000 ml	
	Section should be a Section	en sak bajar balandar Paraga	MONITO	)RING BI	=ADINGS	MATERIAL PROPERTY.		e and a second		
	MONITORING READINGS HANBY SCREENING									
TIME	PID READ	ING (ppm)	CG/LEL (	(%)	(standard/ppr					
17:00	BZ=0		0		NR					
BG=Background;	BZ=Breathi	ng Zone; BH=	Borehole;	NR=No	Readings; HS=I	Headspac	e; S=Sample	(uncor	ntained)	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	<u>arken in Senadah ketal</u>	<u>√</u>	CHECK AN	NALYSES	REQUESTED	office for the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sam		Televisi (M	processor and the first processor and the	
			ROW LAB				ANCHO	DRAGE	IAR	
ANALYSES		CON	TAINERS		ANALYSES		CONTAINE			
7.1.1.1020		WATER		SOIL	ANALISES			·		
TPH	1	1 liter		OZ OZ	VOC (8260)		WATER		SOIL	
PCB		i litei	l °	02	<del></del>	<i>J</i>	3 x 40 ml		4 oz	
PESTICIDES					SVOC (8270)	· /	1 liter		8 oz	
HVOC 8010		1 10		_	TOTAL METAL	<del></del>	1 liter		8 oz	
VOC-BTEX 8020		1 x 40 ml	4	OZ	DISS METALS		1 liter			
VOC-B1EX 8020	<b>/</b>	***************************************	L  -		TDS		250 ml			
					TSS	<b>/</b>	250 ml			
					TOC		500 ml		4 oz	
				_	TCLP	_	2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

		s		***************************************								
RADAR STATION: Point Lonely WEATHER: Cloudy, mild wind												
SITE/AOC: SS12 Mo	dule Train	F	EET FRO	M FIXED P	OINT: 30	M	IAGNETIC HE	ADING	à: <u>180°</u>			
FIXED POINT: Appro	oximately 10	ofeet from the	location	of SW01 in	the tundra.							
SAMPLE MATRIX: [ SAMPLERS: <u>RT, M</u> L	` '	☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)				
TIME SAMPLED: 13		D	EPTH O	F SAMPLE	(feet):		1		- 1,411 11 11 11 11 11 11 11 11 11 11 11 11			
SAMPLE DESCRIPTION						uddle i	n the tundra.					
SAMPLING METHOD	: Scooped	d into jar										
QA/QC SAMPLES CO	OLLECTED:	: 🗌 Equipr	nent Blar	nk (EB)	☐ QA/QC Ex	tra Volu	umes					
☐ Trip Blank (TB)		Duplica	ate of Wa	ater Sample	ID							
☐ Ambient Conditio	n Blank (Al	B) 🗌 Replica	ate of So	il Sample I	)							
			WA	TER PARA	METERS							
TIME	TIME PH CON				TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY			
						1						
The management of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	dus.		MON	IITORING R	EADINGS							
TIME	PID READING (ppm) CG/LEL (%) (standard/ppm)											
BG=Background;	BZ=Breath				Readings; HS=Hea			uncor	ntained)			
	**************************************				S REQUESTED			\$666.207.5.a				
		BAF	RROW LA	\B			ANCHO	RAGE	LAB			
ANALYSES		CO	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS			
7,111,121020		WATE	 R	SOIL	, , , , , , , , , , , , , , , , , , , ,		WATER		SOIL			
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz			
РСВ					SVOC (8270)		1 liter		8 oz			
PESTICIDES					TOTAL METALS		1 liter		8 oz			
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter					
VOC-BTEX 8020					TDS		250 ml					
					TSS		250 ml					
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		тос		500 ml		4 oz			
			· · · · · · · · · · · · · · · · · · ·		TCLP		2 liters		2 x 8 oz			
						<u> </u>						

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR THE HANGAR PAD AREA (SS13)

DATE: <u>08/27/93</u>			SAMPLE I	D: <u>LON-SS</u>	313-S01-1.5				
RADAR STATION: <u>Po</u>									
SITE/AOC: SS13 Har					***************************************			DING:	West (Due)
FIXED POINT: Base	of gravel p	ad from seco	ond light p	ole from H	angar (due north of	Hangar	central area).		
SAMPLE MATRIX: <b>E</b> SAMPLERS: PG, JM	` '	☐ Sedir	nent (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 14		<del></del>	DEPTH O	F SAMPLE	(feet): 1-2" below s	urface			
SAMPLE DESCRIPTION							boundary. S	ample	d material is
silts, sands and grave		· · · · · · · · · · · · · · · · · · ·							
SAMPLING METHOD	: Spade ai	nd scoop							
QA/QC SAMPLES CO	DLLECTED:	: 🗌 Equip	ment Blai	nk (EB)	☐ QA/QC Ex	tra Volu	umes		
☐ Trip Blank (TB)					e ID				
☐ Ambient Condition	n Blank (Al	3) 🗌 Repli	cate of So	il Sample II	)				
			WA	TER PARAI	METERS		···		
TIME	PH	CC	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥΤ	URBIDITY
				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Est Million Land		MON	IITORING F	READINGS	in a decision of a	20 (1 to 20 )	rendess rend	1985 1 <b>2 (16)</b>
			- William	TOTAL OF	T	IINC			
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING			
BG=Background;	BZ=Breath	ing Zone; Bl	1=Boreho	ole; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncor	ntained)
	in Selections	STATE OF STREET	✓ CHECK	ANALYSE	S REQUESTED				
		BA	RROW LA	 \В			ANCHO	RAGE	LAB
ANALYSES	1	C	ONTAINER	 RS	ANALYSES	1	CON	TAINE	RS
ANALIGEO		WAT		SOIL	ANALIOLO		WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB		[			SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		· 2 liters		2 x 8 oz
									<u></u>

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>09/05/93</u>			SA	MPLE I	D: LON-SS	S13-2SD04				
RADAR STATION: PO	oint Lonely		WI	EATHER	R: Cold, wi	ndy, 35°F				
SITE/AOC: <u>SS13 Har</u>					M FIXED F	OINT: 200	M	AGNETIC HEAD	DING	: SW
FIXED POINT: South	west corne	er of Han	gar bu	ilding.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
SAMPLE MATRIX:	] Soil (S)	S	edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>PG, JM</u>										
TIME SAMPLED: 13						(feet): <u>0-0.5</u>				
SAMPLE DESCRIPTION									mat	erial. Sheen
was observed in pone SAMPLING METHOD		feet from	n the t	ouilaing.	No sneen	visible where samp	ie was	collected.		
1A/QC SAMPLES CO		———	auinm	ent Blar	ok (ER)	☐ QA/QC Ex	tra Vali	·moo		
TA/QC SAMFLES CO	LLEUTED.				, ,	ID				
☐ Ambient Condition	n Blank (Al									
				<del></del>	TER PARAI					
	T		2011			I	Т			
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVITY	<u> </u>	URBIDITY
	1				A		1			****
and the field of the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in t	(Stelland Philosophic Action)	on Dunkalin		anan ing Proper	dental de la la la la la la la la la la la la la	1 - Carlotte Michigan	general recession			
				MON	ITORING R	EADINGS		· · · · · · · · · · · · · · · · · · ·	· 1	
	DID DEAF		,		<i>-</i>	HANBY SCREEN	IING			
TIME	PID READ	JING (pp	m)	CG/LE	EL (%)	(standard/ppm)	_			
	***************************************									
BG=Background;	BZ=Breath	ina Zone	:: BH=	Boreho	le: NR=No	Readings; HS=Hea	dspace	e: S=Sample (ı	incor	rtained)
	de la sistème replació o frança frenca	Care designation	MS security in	en Formataile	ta matining flat garden time	on the facility of the second first of the second of the second	ac pac	o, o—oampio (c	MINIOC.	itanica)
			1	CHECK	ANALYSES	S REQUESTED				
			BAR	AJ WOF	λB			ANCHO	RAGE	LAB
ANALYSES			CON	TAINER	IS	ANALYSES	1	CONT	AINE	RS
		V	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ		İ				SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020						TDS		250 ml		
						TSS		250 ml		
						TOC		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/05/93</u>			SAM	PLE IC	D: <u>LON-SS</u>	13-2SD05						
RADAR STATION: Po	oint Lonely		WEA	THER:	: Cold, wir	idy, 35°F						
SITE/AOC: SS13 Har	nger Pad A	rea	_ FEET	T FRO	M FIXED P	OINT: 200	_ MA	GNETIC HEAD	NG: _	East		
FIXED POINT: 150 fe	et due eas	t of SD01	, and 2	00 fee	t due east	from northeast corn	er of F	langar. (150 fe	et eas	st of Hangar		
gravel pad, approxima	ately splittir	ng a line b	etween	SD01	and SD02.	)		***************************************				
SAMPLE MATRIX:	` '	■ Se	ediment	(SD)		Surface Water (SW)		Groundwater (	GW)			
SAMPLERS: <u>PG, JM</u>												
TIME SAMPLED: 13						(feet): <u>0-0.5</u>						
SAMPLE DESCRIPTION			<u>ındra m</u>	aterial	and dark o	ray saturated clay a	at interf	ace of tundra a	and cl	ау		
SAMPLING METHOD												
QA/QC SAMPLES CO	DLLECTED:					☐ QA/QC Ext		ımes				
☐ Trip Blank (TB)	n Dinale (Af					ID						
☐ Ambient Condition	n Blank (At	3) LI He	eplicate	or Soil	i Sample IL							
	······································			WAT	ER PARAL	METERS						
TIME	PH		CONDU	JCTIVI	TY	TEMPERATURE	SPE	CIFIC GRAVIT	/   T	URBIDITY		
				MONI	TORING R	EADINGS		· · · · · · · · · · · · · · · · · · ·	-			
TIME	PID READ	NG (ppn	n) (	CG/LE	L (%)	HANBY SCREEN (standard/ppm)	IING					
		(1-1			_ (,	(======================================						
BG=Background:	BZ=Breath	ina Zone:	BH=B	orehol	e: NR=No	 Readings; HS=Hea	dspace	: S=Sample (	l uncor	ntained)		
	to de la Silica de Silica de Silica de Silica de Silica de Silica de Silica de Silica de Silica de Silica de S		COMMUNICATION CO.	raceimene.			enerate es		useestavas			
			✓ Ch	HECK	ANALYSES	REQUESTED						
		-	BARRO	OW LAI	В			ANCHO	RAGE	LAB		
ANALYSES	1		CONTA	AINERS	S	ANALYSES	1	CON	TAINE	RS		
		W	ATER		SOIL			WATER		SOIL		
ТРН	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz		
PCB						SVOC (8270)		1 liter		8 oz		
PESTICIDES						TOTAL METALS		1 liter		8 oz		
HVOC 8010		1 x 40 r	ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020						TDS		250 ml				
						TSS		250 ml				
						тос		500 ml		4 oz		
						TCLP		2 liters		2 x 8 oz		

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>09/05/93</u>			SA	MPLE	ID: LON-S	S13-2SD06			
RADAR STATION: P	oint Lonely		W	EATHE	R: Cloudy,	windy, cold, 35°F			
SITE/AOC: <u>SS13 Ha</u>								GNETIC HEADI	
FIXED POINT: 20 fee	et east of c	ravel pac	d; 70 fe	eet nort	h of utility li	ight pole (adjacent r	orthea	st corner of Han	gar).
SAMPLE MATRIX:	Soil (S)	■ S	edime	nt (SD)		Surface Water (SW)		Groundwater (0	W)
SAMPLERS: <u>PG, JN</u>									
TIME SAMPLED: 13									
SAMPLE DESCRIPTION	ON/COMM	ENTS: C	Clayey	silts, sa	ands, and c	ıravels, saturated, ur	nderlyin	g a thin layer of	heavily decaye
tundra material. SAMPLING METHOD									
		. 7 -		. 5.	. (55)				
QA/QC SAMPLES CO	DLLEGIED					☐ QA/QC E			
<ul><li>☐ Trip Blank (TB)</li><li>☐ Ambient Condition</li></ul>	n Piank (A	o D a	uplica	te of Wa	ater Sample	e ID			
Amoient Condition	II DIAIIK (A	b) 🗆 n	ерпса	te of Sc	Sample I	υ			
	<del></del>			WA	TER PARA	METERS			
TIME	PH		CON	DUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVITY	TURBIDITY
				·			-		
. 18 Section of Assistant Section 18	The Manual Control	olini salatta, alia salatsala	a in see in or	Calculate Street Street	and the Samuel And the same				
				MON	IITORING F	READINGS			
						HANBY SCREET	VING		
TIME	PID READ	DING (pp	m)	CG/LE	EL (%)	(standard/ppm)			
						- 1		<u> </u>	
BG=Background; I	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (u	ncontained)
			1	CHECK	ANALYSE	S REQUESTED			
			BARF	ROW LA	AB			ANCHOR	AGE LAB
411110000		J	001	TAINIEE		-			
ANALYSES			CON	TAINEF	15	ANALYSES	1	CONTA	AINERS
		W	/ATER		SOIL			WATER	SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml	4 oz
PCB						SVOC (8270)		1 liter	8 oz
PESTICIDES						TOTAL METALS		1 liter	8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter	
VOC-BTEX 8020						TDS		250 ml	
						TSS		250 ml	
						тос		500 ml	4 oz
						TCLP		2 liters	2 x 8 oz
					L		1	L	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>			SAMPLE I	D: <u>LON-SS</u>	13-SW01				
RADAR STATION: Po									
SITE/AOC: SS13 Har	nger Pad Ar	reaF	EET FRO	M FIXED P	OINT: $40 + ~10$	M	IAGNETIC HE	ADING	: <u>50° (NE)</u>
FIXED POINT: Post									
SAMPLE MATRIX: [		☐ Sedim	nent (SD)	<b>S</b>	Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>PG, JM</u> FIME SAMPLED: <u>13</u>			DEPTH OF	SAMPLE	(feet):				
SAMPLE DESCRIPTION						n SD01	. Sample sho	uld rep	resent bulk
of water in pond rathe									
SAMPLING METHOD									
QA/QC SAMPLES CO			ment Blar	ık (EB)	☐ QA/QC Ext	ra Volu	imes		
☐ Trip Blank (TB)					ID				
Ambient Condition	n Blank (AE	B) 🗌 Replic	ate of Soi	il Sample IE	)				
				TER PARAM					
TIME	PH	CC	NDUCTIV	TITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y TI	JRBIDITY
13:40	8.8	60			4.5°C			<	1.0
								o leb role sector.	
		A Here State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State	MON	ITORING R	EADINGS				
TIME	PID READ	ING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	IING			ļ
THVC	110 11010	(PP11)							
BG=Background;	BZ=Breath	ing Zone; Bl	H=Boreho	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncon	tained)
	CONTRACTOR OF THE SECOND	kalen oz üz izez en e			S REQUESTED		A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONT		Andreas Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Comm
		BA	RROW LA	AB			ANCHO	RAGE	LAB
ANALYSES		C	ONTAINEF	RS	ANALYSES	/	CON	TAINE	RS
ANACIOLO		WAT	ER	SOIL			WATER		SOIL
ТРН	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ					SVOC (8270)	1	1 liter		8 oz
PESTICIDES	1				TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS	1	250 ml		
					TSS	1	250 ml		
					тос	1	500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet) (i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>			SA	MPLE II	D: LON-SS	313-SW02					
RADAR STATION: P											
SITE/AOC: SS13 Ha							_ MAG	NETIC HEADI	NG: <u>1</u>	<u>lorth</u>	
FIXED POINT: Base											
SAMPLE MATRIX:	] Soil (S)	☐ Se	edimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)		
SAMPLERS: PG, JN					_			<u> </u>			
TIME SAMPLED: 14											
SAMPLE DESCRIPTI	ON/COMM	ENTS: <u>N</u>	lear S	D02. V	Vater ambe	er color with visible	POL s	sheen on surfa	ace, a	bundant live	
organisms. SAMPLING METHOD	). Dedicate	d scoop						<u> </u>			
QA/QC SAMPLES CO			nuinm	ont Blor	ok (EB)	Π 04/00 F _W	tra Val	ımaa			
☐ Trip Blank (TB)	JEEEOTED					ID					
☐ Ambient Conditio		3) 🗆 Re	eplicat	e of Soi	il Sample II	) )					
				WA	TER PARAM	METERS	7			***************************************	
TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y 7	TURBIDITY	
14:10	9.2		Meter not working 4°C (>1,990)								
Conductivity meter	/ity meter integrity is suspect; will recalibrate.										
Obliductivity There integrity is suspect, will recalibrate.											
C. B. Banggal (Calabana) (R. Calaba), Ang Tagal (Calaba), Ang Calaba	Professional State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of	·····································	i Tenis (saeg	in the state of the	- Tantanas		nongo malend	New beltings at the second	- 200 100	The second of the second of the second	
				MON	ITORING R	EADINGS					
			ĺ			HANBY SCREEN	NING				
TIME	PID READ	ING (ppn	n)	CG/LE	EL (%)	(standard/ppm)	·				
PG-Packground:	P7—Prooth	ing Zona		Dorobo	lo: ND. No.	Doodings U.S. U.S.		L			
BG=Background,	DZ=DIEdili	ing zone,	DII =	Dotetto	e, NH=NO	Readings; HS=Hea	aspace	e; S≃Sample	(uncor	itained)	
			1	CHECK	ANALYSES	REQUESTED					
			BARF	ROW LA	В			ANCHO	RAGE	E LAB	
ANALYSES	1		CON	TAINER	9	ANALYOFO		CON	TAINE		
ANALISES						ANALYSES	1	CON	IAINE	T	
		W	ATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB						SVOC (8270)		1 liter		8 oz	
PESTICIDES				,		TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 r	ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	VOC-BTEX 8020 ✓					TDS		250 ml			
						TSS		250 ml			
						тос		:500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	
<u> </u>	1	<u> </u>			<u> </u>		<u> </u>	<u> </u>		<u> </u>	

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; Ice all samples to  $4^{\circ}C$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>		s	AMPLE IC	D: <u>LON-SS</u>	13-SW <u>03</u>					
RADAR STATION: Po	oint Lonely	V	<b>VEATHER</b>	: Cloudy, t	oreezy, cool, 41°F					
SITE/AOC: SS13 Har	nger Pad Ar	<u>ea                                     </u>	EET FRO	M FIXED P	OINT: 40	MAGN	ETIC HEADING	: <u>SW</u>		
FIXED POINT: Post a										
SAMPLE MATRIX:		☐ Sedim	ent (SD)	<b>3</b> S	Surface Water (SW)		Groundwater (G	(WE		
SAMPLERS: <u>PG, JM</u> FIME SAMPLED: <u>14</u>			EPTH OF	SAMPLE	(feet)					
SAMPLE DESCRIPTION	NI/COMME	NTS: Note s	heen ann	arently drai	ning from pad. POL	odor a	pparent. POL	drainii	ng all along	
south wall of gravel b										
SAMPLING METHOD										
QA/QC SAMPLES CO			ment Blan	ık (EB)	☐ QA/QC Ext	ra Volu	ımes			
☐ Trip Blank (TB)					ID					
☐ Ambient Conditio	n Blank (AB									
		<u></u>		TER PARAM						
TIME	PH	co	NDUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVITY	Τι	JRBIDITY	
14:40	8.8		ter not wo	orking	4.5°C			<	1.0	
Conductivity meter	integrity is	suspect; will	recalibrat	e.						
			MON	ITORING R	EADINGS	992	Proposition of the second	Andrew (V) - 1000	e Distriction of the section	
			MON	ITORING H				<u> </u>		
TIME	PID READ	ING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	liNG				
THE		(рр)	(N)							
			l	A12 A15						
BG=Background;	BZ=Breath	ing Zone; Bh	i=Boreho	ile; NR=No	Readings; HS=Hea	dspac	e; S=Sample (u	ıncon	tained)	
			✓ CHECK	ANALYSE	S REQUESTED					
		ВА	RROW LA	∖B			ANCHO	RAGE	LAB	
ANALYSES	/	CC	NTAINEF	RS	ANALYSES	1	CONT	AINE	RS	
		WATE	ER .	SOIL			WATER		SOIL	
ТРН	1	1 liter		8 oz	VOC (8260)		3 x 40 mi		4 oz	
PCB					SVOC (8270)		1 liter		8 oz	
PESTICIDES					TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	VOC-BTEX 8020 ✓				TDS		250 ml			
					TSS		250 ml			
					тос		: 500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	
				<u> </u>		<u> </u>				

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/27/93</u>			SA	MPLE II	D: <u>LON-SS</u>	13-SD01				
RADAR STATION: Po	oint Lonely		WE	WEATHER: Foggy, cool, 45°F						
SITE/AOC: SS13 Har						OINT: 40	M	AGNETIC HEA	DING	: 41°, (NE)
FIXED POINT: Post a	at northeas	t corner o	of Han	gar buil	ding.		<u>=</u> .			
SAMPLE MATRIX:	] Soil (S)	S	edimer	nt (SD)		Surface Water (SW)		Groundwater (	(GW)	
SAMPLERS: PG, JM						<u></u>				
TIME SAMPLED: 13										
SAMPLE DESCRIPTION DESCRIPTION DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DEL COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DEL COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DEL COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA COMPTE DE LA	)N/GOIVIIVIE	=N15: <u>5</u>	ands a	nd grav	els, minor s	ilts and clays, dark b	rown to	black, nigh or	ganic	content and
SAMPLING METHOD	: Spade a	nd scoor	)			· · · · · · · · · · · · · · · · · · ·		·	~~~~	
QA/QC SAMPLES CO				ent Blar	nk (EB)	☐ QA/QC Ext	ra Volu	ımes		
☐ Trip Blank (TB)						ID				
☐ Ambient Condition	n Blank (Al									
				WA	TER PARAM	METERS				
TIME	PH		CONI	DUCTIV	TITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY
				7				- HAW		
	1								+	
	-								_	
		Berlinde Kirlin 1224 SE	00 ST <b>78</b> Street	Milesia de presenta	200 Gar		C. A. A. S. Gerrandeller	Service Description	S22711 (-4157)	- 1975 FREEZER
				MON	ITORING R	EADINGS				
						HANBY SCREEN	IING			
TIME	PID READ	DING (pp	m)	n) CG/LEL (%)		(standard/ppm)			_	
							_			
BG=Background;	BZ=Breath	ing Zone	e: BH=	Boreho	le: NR=No	Readings; HS=Hea	dspace	e: S=Sample (	uncor	ntained)
			0854690.30	180 A.S.			er-mitheteresish			
	1	T	<i>J</i>	CHECK	ANALYSES	S REQUESTED	1			
			BARF	ROW LA	AB			ANCHO	RAGE	LAB
ANALYSES	1		CON	TAINER	S	ANALYSES	1	CON	TAINE	RS
		N	VATER		SOIL			WATER		SOIL
ТРН	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ						SVOC (8270)	1	1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>			SA	AMPLE	ID: LON-S	S13-SD02				
RADAR STATION: P	oint Lonely	·	W	EATHE	R: Foggy,	cool, 45°F				
SITE/AOC: SS13 Ha							N	MAGNETIC HE	ADING	3: <u>N</u>
FIXED POINT: Base	of gravel p	ad at no	rth end	d of gra	y diesel tar	k (~1,000 gal).				<del></del>
SAMPLE MATRIX: [ SAMPLERS: PG, Ji	` ,	S	edime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 14			DI	EPTH O	F SAMPLE	(feet): 0-0.5				
SAMPLE DESCRIPTI						. ,	and st	taining detecta	ble, n	ninor organi
matter, visible sheen										
SAMPLING METHOD	D: <u>Spade a</u>	ınd scooj	0			177-178-214				
QA/QC SAMPLES C	OLLECTED	: 🗆 E	quipm	nent Bla	nk (EB)	☐ QA/QC Ex	tra Vol	umes		
☐ Trip Blank (TB)			uplica	te of W	ater Sample	e ID				
☐ Ambient Condition	n Blank (A	B) 🗆 F	leplica	te of Sc	oil Sample I	D				
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTI	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	γ -	TURBIDITY
	-									
			*							
1 Miles decimandes and a superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the super	ika da silah sebagai kang ing 1967.	150. <b>1</b> 36. maria - 174		AOM	IITORING F	DEADINGS			100000000000000000000000000000000000000	
				IVION	III ONING F	1	-	T		
TIME	PID READ	DING (pp	m)	CG/L	EL (%)	HANBY SCREE! (standard/ppm)	NING			
										*******
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncoi	ntained)
Paradamentari mendepatratukan gerapat (Pikuta da Jawa) ki biba		KORANAT ING TELESCO	ſ	CHECK	ANALYSE	S REQUESTED	BB And All Boundaries	NEW COLUMN	(NE)PROBE	
			BAR	ROW LA	AB			ANCHO	RAGE	LAB
ANALYSES			CON	TAINEF	RS	ANALYSES	1	CON	TAINE	.BC
7.10.10.10	<del> </del>	١٨	/ATER		SOIL	ANALIOES		WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml	***	4 oz
PCB	-	' ''''			0 02	SVOC (8270)	-	1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml	T	4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1	'   '	.,,,		1 02	TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters	-	2 x 8 oz
				,						
L		<u> </u>			<u> </u>	1	L	L		L

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/27/93</u>		_	SA	MPLE II	D: LON-SS	513-SD03				
RADAR STATION: <u>P</u>										
SITE/AOC: SS13 Ha					M FIXED F	OINT: 40	M	AGNETIC HEA	DING	190°
FIXED POINT: Post										
SAMPLE MATRIX:		S	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>PG, JN</u> TIME SAMPLED: <u>1</u> 4				DTU O	CAMPIE	/fact\: 0 C!				
SAMPLE DESCRIPTION							ls and o	ravel fill mater	ial with	dark brown
to black organic rich									ICH WITH	I daik blowi
SAMPLING METHOD	D: <u>Dedicate</u>	d scoop								
QA/QC SAMPLES C	OLLECTED	: 🗆 E	quipm	ent Blar	nk (EB)	☐ QA/QC Ex	tra Volu	ımes		
☐ Trip Blank (TB)				plicate of Water Sample ID						
Ambient Condition	n Blank (Al	3) 🗆 F	Replicat	licate of Soil Sample ID						
				WA	TER PARA	METERS				
TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY
			· · · · · ·							
				7 - 2411/11/11			<b>†</b>			
				<del></del>			<del> </del>		<u> </u>	
	endial Mestarifica		Zatile latinione	ulistic VIANIVISION	should the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o		. Otals	ng ang ang ang ang ang ang ang ang ang a	gradusta 1500 Pk. (-	and the second second second second
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	DID DE 1		,			HANBY SCREEN	NING			
TIME	PID READ	NNG (pp	m)	m) CG/LEL (%)		(standard/ppm)				
							·			
					<del>-</del>					
BG=Background;	BZ=Breath	ing Zone	e; BH=	Boreho	le; NR=No	Readings; HS=Hea	adspace	e; S=Sample (	(uncor	ntained)
in in the second section of the property section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect	文化, 1966年 - 建超级电路 超流之效应		<b>/</b>	CHECK	ANALYSES	S REQUESTED				
			BAR	ROW LA	В			ANCHO	RAGE	IAB
ANALYOFO				TAINER						
ANALYSES						ANALYSES			TAINE	
		V	VATER		SOIL	1		WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
				-						

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR BACKGROUND (BKGD)

DATE: <u>08/25/93</u>										
RADAR STATION: Po								-		
SITE/AOC: BKGD Ba	ackground		FE	ET FRO	M FIXED F	OINT: 400	N	MAGNETIC HE	ADING	G: <u>25°</u>
FIXED POINT: North	east corner	of blue I	hangar	buildin	g					
SAMPLE MATRIX: 📱	Soil (S)	□ s	edimei	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: RO										
TIME SAMPLED: 18	3:00		DE	PTH OF	SAMPLE	(feet): 12-16" below	surfac	e tundra		
SAMPLE DESCRIPTION										e of stairway
of radar dome, and s	econd light	pole N	of Han	ger is N	34°W of sa	ample. Respective I	oearing	s are 85° and	326°	
SAMPLING METHOD	: Knife, dis	sposable	gloves	3						
QA/QC SAMPLES CO	DLLECTED:									
☐ Trip Blank (TB)						ID				
☐ Ambient Condition	n Blank (Af	3) 🗆 R	eplicat	e of Soi	Sample  [	)				
				WA ²	TER PARAI	METERS				
TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY
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	Prosperior Residence	SKI LA CHE STATE		MON	ITORING R	EADINGS			SESSIBLE OF	TOTAL CONTRACTOR
						HANBY SCREEN	IING			
TIME	PID READ	ING (ppi	m) CG/LEL (%)			(standard/ppm)	VIIVG		1	
									<u> </u>	
					<del></del>					
			i							
BG=Background;	BZ=Breath	ing Zone	; BH=	Borehol	e; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncor	ntained)
und de Mittele (particular de de la comitation de la colonidad de la colonidad de la colonidad de la colonidad	ra ka terdir Diliyak danka bela dibadet.	THE PLET BY CORRES	1	CHECK	ANALYSES	S REQUESTED	i ii katawa kuwa	er og af 1990 til flere forste forste forste forste forste forste forste forste forste forste forste forste fo	000 EV& 50%	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
			BARE	ROW LA	B.			ANCHO	RAGE	IΔR
						-				
ANALYSES	1		CON	TAINER	S 	ANALYSES	<b>&gt;</b>	CON	TAINE	RS
		W	/ATER		SOIL			WATER	-2	SOIL
ТРН	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ	1					SVOC (8270)	1	1 liter		8 oz
PESTICIDES	1					TOTAL METALS	1	1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS	1	1 liter		
VOC-BTEX 8020	1					TDS	1	250 ml		
						TSS	1	250 ml		
						тос	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/25/93</u>		S	AMPLE I	D: <u>LON-Bk</u>	(GD-SD01				
RADAR STATION: P	oint Lonely	v	/EATHEF	R: <u>Drizzle, c</u>	cool, wet, foggy, clo	udy, 40	)°F		
SITE/AOC: BKGD Ba									
FIXED POINT: Secon	nd shoulder	r past landfill (	on left or	road out to	o fresh water drinkin	g supp	ily lake betweer	1 2 pc	onds.
SAMPLE MATRIX: [ SAMPLERS: RO, M	• • •	Sedim	ent (SD)		Surface Water (SW)		Groundwater (	GW)	
TIME SAMPLED: 15			EPTH O	F SAMPLE	(feet): Surface 0-6"				
SAMPLE DESCRIPTION							d bottom, lots o	of buc	s in and out
of water.	311, 3311		THE THERE	<u> </u>	si portaj sin arta piar				
SAMPLING METHOD	): Disposat	ole glove							
QA/QC SAMPLES C			nent Blar	nk (EB)	QA/QC Ex	tra Volu	umes		
☐ Trip Blank (TB)					ID				
☐ Ambient Conditio	n Blank (AE								
			WA	TER PARAN	METERS				
TIME	PH	COL	NDUCTIV	/ITV	TEMPERATURE	SPE	CIFIC GRAVITY	/ T	URBIDITY
I HVIL	113	- 00	NDOO IIV		TEINI ENATORE	Oi L	OII 10 GILAVII I	+	ONDIDITI
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	W-44134		OS HENDON TO VA	in 7 to 1	TO SEE STREET, SECOND				SANGE STATE OF THE STATE OF
			MON	IITORING R	EADINGS		Т	<del></del>	
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	IING			
									· · · · · · · · · · · · · · · · · · ·
								+	
BG=Background;	BZ=Breath	ing Zone; BH	=Boreho	le; NR=No	Readings; HS=Hea	dspac	e; S=Sample (	uncor	ntained)
		J	' CHECK	ANALYSES	S REQUESTED				
			RROW LA				ANCHO	RAGE	LAB
ANALYSES	/	СО	NTAINEF	RS	ANALYSES	1	CONT	AINE	RS
		WATE	R	SOIL			WATER		SOIL
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ	1				SVOC (8270)	1	1 liter		8 oz
PESTICIDES					TOTAL METALS	1	1 liter		8 oz
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS	1	1 liter		
VOC-BTEX 8020	<b>/</b>				TDS	1	250 ml		
				ļ	TSS	1	250 ml		
					тос	1	500 ml		4 oz
					TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/25/93</u>			SA	MPLE I	D: LON-BE	(GD-SD02				
RADAR STATION: <u>P</u>										
SITE/AOC: BKGD Ba								MAGNETIC H	EADIN	G: <u>70°</u>
FIXED POINT: East 6										
SAMPLE MATRIX:	` '	S	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: <u>RO, MI</u> TIME SAMPLED: <u>16</u>			DE	DTH O	E CAMPI E	(feet): Peat 6" deep	0"	donustor		
SAMPLE DESCRIPTION										
						and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	01110 01			
SAMPLING METHOD	: Shovel, d	disposab	le glov	re						
QA/QC SAMPLES CO					• •					
☐ Trip Blank (TB)						ID				
Ambient Conditio	n Blank (Al	B) L R	eplicat	te of So	il Sample II	)				
	· · · · · · · · · · · · · · · · · · ·			WA [*]	TER PARA	METERS	·			
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY
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				MON	ITORING R	EADINGS		1		
TIME	DID DEAD	NNC (an	~\ ~	CC# F	-I (0/)	HANBY SCREEN	IING			
TIVIE	PID READ	лис (рр	111)	CG/LE	L (%)	(standard/ppm)			_	
BG=Background;	BZ=Breath	ing Zone	; BH=	Boreho	le; NR=No	Readings; HS=Hea	dspac	e; S=Sample	(uncor	ntained)
			1	CHECK	ANALYSE	S REQUESTED	49/60/0000000000000000000000000000000000	10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10 and 10		garage (Call Table) and an extension of the
		!	BAR	ROW LA	.В			ANCHO	RAGE	LAB
ANALYSES			CON	TAINER	ıs	ANALYSES	,	CON	TAINE	RS
7117121323		\	VATER		SOIL	AIVALIGES		WATER		SOIL
TPH	1	1 liter	*/ (1 = 11			VOC (9959)				
		i iiiei			8 oz	VOC (8260)	1	3 x 40 mi		4 oz
PCB	/	-				SVOC (8270)	/	1 liter	•••	8 oz
PESTICIDES			<del></del>	<del>1</del>		TOTAL METALS	1	1 liter		8 oz
HVOC 8010	✓ 1 x 40 ml 4 oz					DISS METALS	1	1 liter		
VOC-BTEX 8020 ✓						TDS	1	250 ml		
					:	TSS	1	250 ml		
						TOC	1	500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to  $4^{\circ}\mathrm{C}$ 

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/25/93</u> SAMPLE ID: <u>LON-BKGD-SW01</u>										
RADAR STATION: Point Lonely WEATHER: Drizzle, cool, wet, foggy, cloudy, 40°F										
SITE/AOC: <u>BKGD Ba</u>	ckground		FE	ET FRO	M FIXED F	OINT: 60	N	MAGNETIC HE	ADING	G: <u>105°</u>
FIXED POINT: Secon	nd land sho	oulder fro	m land	dfill on th	ne left, on r	oad out to freshwate	er supp	oly lake, betwee	n por	nds.
SAMPLE MATRIX: 🗀	] Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>RO, ML</u>										-
TIME SAMPLED: <u>14</u>						(feet): Surface 0-6"				
SAMPLE DESCRIPTIO									e ope	n area south
of DEW Line module			water	lake, lot	s of biolog	cal activity in water	(bugs).			
SAMPLING METHOD:				/ DI-	. (ED)					
QA/QC SAMPLES CO	DLLEG IED					☐ QA/QC Ex		umes		
<ul><li>☐ Trip Blank (TB)</li><li>☐ Ambient Condition</li></ul>	n Blank (Δί									
Ambient condition	T DIGITIK (AL	J) L II	eplica	ie 0i 30i	- Sample II					
	<del></del>			WA	TER PARAI	METERS	·			
TIME	PH		CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVITY	<b>′</b>   Т	URBIDITY
14:35	6.9		550	,,,,,		5°C	Fres	h Water	<	<0.0001
THE RESERVE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	Conditional Section (Condition	No. Common Common	1542152 (AUS)	MON	ITORING F	EADINGS		CONTROL OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		england in A CPT is a single
						1	IINC			
TIME	PID READ	ING (pp	m)	CG/LE	L (%)	HANBY SCREEN (standard/ppm)	iling			
		-								
								``		
BG=Background: I	B7=Breath	ina Zone	· BH=	Borehol	e. NB=No	Readings; HS=Hea	dspace	S=Sample (i	ıncor	ntained)
DO-DOORG, Ourie, 1	DL - Droutin	mg Zone	energy resident	M. 101. 105. 194. 194.			шорас		NEW STATES	mainea)
				CHECK	ANALYSE	S REQUESTED				
			BARI	ROW LA	В			ANCHO	RAGE	LAB
ANALYSES			CON	ITAINER	S	ANALYSES	1	CONT	AINE	RS
			VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	/	3 x 40 ml		4 oz
PCB	1	, illo			0 02	SVOC (8270)	1	1 liter		8 oz
PESTICIDES						<u> </u>				
	1	4 40				TOTAL METALS	1	1 liter	· · ·	8 oz
HVOC 8010	/	1 x 40	mı		4 oz	DISS METALS	/	1 liter		
VOC-BTEX 8020	<b>/</b>			<u> </u>		TDS	<b>√</b>	250 ml		
		<u> </u>				TSS	1	250 ml		
				****		TOC	<b>√</b>	500 ml		4 oz
			-			TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/25/93</u>		-	SA	MPLE I	D: LON-B	(GD-SW02						
RADAR STATION: Point Lonely WEATHER: Wet, drizzle, cold, foggy, 40°F												
SITE/AOC: BKGD Ba	ckground		FE	ET FRO	M FIXED F	OINT: 2400		MAGNETIC H	EADII	NG: <u>70°</u>		
FIXED POINT: East en												
ft at 165° through blad	ck dirt mou	ınds to a	small	pond.					<del></del>			
SAMPLE MATRIX:	l Soil (S)	□s	edime	nt (SD)		Surface Water (SW)		Groundwater	(GW)			
SAMPLERS: RO, ML						-						
TIME SAMPLED: 16						(feet): <u>0-8"</u>						
SAMPLE DESCRIPTION			Small p	ond, ve	getative ma	atter on bottom, son	ne silt (	like peat botto	<u>n).</u>			
SAMPLING METHOD:										····		
QA/QC SAMPLES CC	LLECTED				• ,	☐ QA/QC Ex						
☐ Trip Blank (TB)						ID						
Ambient Condition	n Blank (Al	3) LR	leplicat	e of So	il Sample II	)						
				WA ⁻	TER PARAI	METERS						
TIME	PH		CON	DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y 1	URBIDITY		
15:46	7.1		360			4°C	Fres	sh Water	١.	<0.0001		
	O CONTROL MARIE VICES	a koji ini politika se	113 St. 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	talenta	THE RESIDENCE OF THE SECOND	The second of the second of the second of		en de la company de la company de la company de la company de la company de la company de la company de la comp	MENTEL AND ENGINEER	4 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1		
				MON	ITORING R	EADINGS						
						HANBY SCREEN	IING					
TIME	PID READ	ING (pp	m)	CG/LE	L (%)	(standard/ppm)						
PC - Bookstown d. F	27 Drandh			D l	I ND N-	Daniferan NO III						
BG=Background; E	3Z=Breath	ing Zone	; BH=	Boreno	le; NH=No	Readings; HS=Hea	adspac	e; S=Sample (	uncor	ntained)		
			1	CHECK	ANALYSES	S REQUESTED						
			BARF	ROW LA	.В			ANCHO	RAGE	LAB		
ANALYSES	/		CON	TAINER	S	ANALYSES	<b>/</b>	CON	TAINE	RS		
		V	/ATER		SOIL			WATER		SOIL		
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 ml	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4 oz		
РСВ	1					SVOC (8270)	1	1 liter		8 oz		
PESTICIDES	1					TOTAL METALS	1	1 liter		8 oz		
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS	1	1 liter				
VOC-BTEX 8020	1		_			TDS	1	250 ml				
						TSS	1	250 ml				
						TOC	1	500 ml		4 oz		
						TCLP		2 liters		2 x 8 oz		
L	<del></del>						<u> </u>	<u> </u>		<u> </u>		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/25/93</u>			SAMPLE I	D: <u>Lon-b</u> k	(GD-SW03					
RADAR STATION: Point Lonely WEATHER: Drizzle, cool, wet, foggy, cloudy, 40°F										
SITE/AOC: BKGD B	ackground		FEET FRO	M FIXED F	POINT: 60	M	AGNETIC HEA	DING	105°	
FIXED POINT: Secon	nd land shou	ulder from lai	ndfill on the	e left, on roa	<u>id out to fresh drinkir</u>	g wate	r supply lakes,	betwe	en 2 ponds.	
SAMPLE MATRIX: [ SAMPLERS: RO, M	` '	☐ Sedir	ment (SD)		Surface Water (SW)		Groundwater (	(GW)		
TIME SAMPLED: 14			DEPTH O	F SAMPLE	(feet): 0-6"					
SAMPLE DESCRIPTION						ish cle	ar water 6-8" de	ep, fla	at wide oper	
area south of DEW L										
SAMPLING METHOD				- 1						
QA/QC SAMPLES C	OLLECTED:	☐ Equi	oment Blar	nk (EB)	☐ QA/QC Ex	tra Volu	umes			
☐ Trip Blank (TB)		•		• '	ID LON-BKGD-SW					
☐ Ambient Conditio	n Blank (AE	B) 🗌 Repli	cate of So	il Sample II	)					
			WA	TER PARAI	METERS			, , , ,		
TIME	PH		ONDUCTIV	/ITV	TEMPERATURE	SPE	CIFIC GRAVIT	v T	URBIDITY	
THVIC	1111		DINDUCTIV	111	TEMI ENATORE	- O1 L	OII TO GITAVIT	<del>'   '</del>	OHDIDITT	
	and established the	PET W ( 11 10 ) - 17 15 15 15 15 16 17 17 18 18 1				100 E 100 E 100 E	MATERIAL STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STATE OF STA	arian kanan	St.	
			MON	IITORING F	READINGS					
					HANBY SCREEN	IING				
TIME	PID READ	ING (ppm)	CG/LE	EL (%)	(standard/ppm)					
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		and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t				·				
RG-Background	R7-Breath	ina Zone: R	H-Borebo	Je: NR-No	Readings; HS=Hea		e: S=Sample <i>l</i>	uncor	ntained)	
Da-Background,	DZ-Diedin	mg zone, b	T-Boreno		ricadings, rio—rica	dopae	o, o—oumple (	unoo:	namoa)	
			✓ CHECK	ANALYSE	S REQUESTED					
		B/	ARROW LA	λB			ANCHO	RAGE	LAB	
				ne	111111111111111111111111111111111111111		CON	TAINE	DC	
ANALYSES	/	C	ONTAINEF	12	ANALYSES	<i></i>	CON	IAIIVE	.no	
		WAT	ER	SOIL			WATER		SOIL	
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
РСВ	1				SVOC (8270)	1	1 liter		8 oz	
PESTICIDES	<b>/</b>				TOTAL METALS	1	1 liter		8 oz	
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS	1	1 liter			
VOC-BTEX 8020	1				TDS	1	250 ml			
					TSS	1	250 mi			
					тос	1	500 ml		4 oz	
					TCLP		² liters		2 x 8 oz	

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>09/05/93</u>			SA	MPLE I	D: <u>LON-B</u>	(GD-2SD03					
RADAR STATION: P	oint Lonely		W	EATHER	: Partly clo	oudy, breezy, 38°F					
SITE/AOC: BKGD B								MAGNETIC HE	ADING	G: <u>105°</u>	
FIXED POINT: Secon	nd land sho	oulder fro	om land	dfill on t	he left, on r	oad out to freshwat	er supp	oly lake.			
SAMPLE MATRIX:	• ,	<b>S</b>	edime	nt (SD)		Surface Water (SW)		Groundwater (	GW)		
SAMPLERS: ML, PC											
TIME SAMPLED: 18											
SAMPLE DESCRIPTION	ON/COMMI	=N1S: <u>I</u>	Dark bi	rown org	ganic rich t	undra material unde	<u>rlined t</u>	by dark brown	orgar	ic silty clay,	
saturated. SAMPLING METHOD	. Disposal	nle scoo	n (sam	ne as AF	CEE samp	le and collected at/r	near RK	GDSD01)			
QA/QC SAMPLES CO											
☐ Trip Blank (TB)	OLLLOILD.					ID					
☐ Ambient Conditio	n Blank (A										
					TER PARAI						
TIME	PH		CON	DUCTIV		TEMPERATURE	SDE.	CIFIC GRAVIT	/ 7	UDDIDITY	
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TIME	PID READ	NG (pp	m)	CG/LE	EL (%)	HANBY SCREEN (standard/ppm)	NING				
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BG=Background;	BZ=Breath	ing Zone	e; BH=	:Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample (	uncor	ntained)	
				CHECK	ANALYSE	S REQUESTED					
			BARI	ROW LA	λB			ANCHO	RAGE	LAB	
ANALYSES			CON	ITAINER	S	ANALYSES	1	CON	TAINE	RS	
		V	VATER		SOIL			WATER		SOIL	
TPH	1	1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz	
PCB						SVOC (8270)		1 liter		8 oz	
PESTICIDES	-					TOTAL METALS		1 liter		8 oz	
HVOC 8010		1 x 40	ml	Ī	4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	\	1 ^ 40	1111		4 02			1			
VOC-BTEX 8020						TDS		250 ml			
						TSS		250 ml			
						TOC		500 ml		4 oz	
						TCLP		2 liters		2 x 8 oz	
		<u> </u>									

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample iD Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

SAMPLE COLLECTION LOGS FOR QA/QC

DATE: 08/24/93			_SAMPLE	ID: LON-TB	-01				·
RADAR STATION: PO	oint Lonely		_WEATHE	R:					
SITE/AOC:		F	EET FROM	I FIXED POIN	T:	MAGN	ETIC HEADING	<b>3</b> :	
FIXED POINT:			<del></del>						
SAMPLE MATRIX:				)	Surface Water (SW)		Groundwater (	GW)	
SAMPLERS: <u>DP</u> TIME SAMPLED: 10			DEBTH (	OE CAMPLE	(foot):				
SAMPLE DESCRIPTION									
SAMI EL DEGOMI TR	314/001411412	.1410. <u>110</u>	DIGHT TO	orved from id	<u>.                                    </u>				
SAMPLING METHOD									
QA/QC SAMPLES CO	DLLECTED:	☐ Equ	uipment Bl	ank (EB)	☐ QA/QC Ext	ra Volu	mes		
					ID				
☐ Ambient Conditio	n Blank (AB	) 🗌 Rep	olicate of S	Soil Sample IC	)				
			W	ATER PARAM	METERS				
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					HANBY SCREEN	ling			
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DO Baskersund	DZ Brasth		PU Porei	hala: NR-Na	Readings; HS=Hea	denace	s: S-Sample		tained)
BG=Background;	BZ=Breath	ing zone,	DU=DO(6)	IIUle, INN=INU	neadings, 115—Tiea	iaspace	s, 3—Sample	(dilcoi	taineu)
			✓ CHEC	CK ANALYSES	S REQUESTED				
			BARROW	LAB			ANCHO	RAGE	LAB
ANALYSES			CONTAINI	ERS	ANALYSES	1	CON	TAINE	RS
		WA	ATER	SOIL			WATER		SOIL
ТРН		1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ		<b>i</b> -			SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40 n	าเ	4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml	<b>-</b>	4 oz
					TCLP		2 liters	<u> </u>	2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/25/93</u>											
RADAR STATION: P	oint Lonely	WE	ATHER	:			ETIO LIE A DINI				
SITE/AOC:		FEET	FROM F	IXED POIN	T:	MAGN	ETIC HEADING	غ:			
FIXED POINT:			. (OD)				Croundwister /	CIAN			
SAMPLE MATRIX:					ourrace vvater (Svv)		Groundwater (	GVV)			
SAMPLERS: <u>DP</u> TIME SAMPLED: <u>11</u>	.00		יסדע הב	CAMPLE	foot):						
TIME SAMPLED: <u>TI</u> SAMPLE DESCRIPTION											
SAMPLE DESCRIPTION	JIN/COMINE	INTO. THE DIA	IIK TECEN	ved from la	U						
SAMPLING METHOD	·:										
QA/QC SAMPLES CO					☐ QA/QC Ext	ra Volu	imes				
					ID						
☐ Ambient Conditio	n Blank (AE	B) $\square$ Replica	te of Soi	il Sample ID	)						
			WAT	TER PARAN	METERS						
TIME	ВП	CON	DUCTIV		TEMPERATURE	SPE	CIFIC GRAVIT	/ T	URBIDITY		
TIME	PH	CON	DUCTIV	111	TEIVITEITATORE	31 L	OII TO GITAVIT	<del>'                                     </del>	OTIBIDITT		
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TIME	PID READ	ING (ppm)	CG/LE	:L (%)	(standard/ppm)						
BG=Background:	BZ=Breath	ing Zone: BH=	Boreho	le; NR=No	Readings; HS=Hea	idspace	e; S=Sample (	uncor	itained)		
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		WATER	}	SOIL			WATER		SOIL		
TPH		1 liter		8 oz	VOC (8260)	1	3 x 40 mi		4 oz		
РСВ					SVOC (8270)		1 liter	·	8 oz		
PESTICIDES					TOTAL METALS		1 liter		8 oz		
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter				
VOC-BTEX 8020	1				TDS		250 ml				
			1		TSS		250 ml				
					тос		500 ml		4 oz		
					TCLP		2 liters		2 x 8 oz		
					***************************************	·					

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/26/93</u>			SAI	MPLE IC	): <u>LON-TB</u>	-03				
RADAR STATION: P									·	
SITE/AOC:			FEET	FROM F	IXED POIN	IT:	MAGN	ETIC HEADIN	G:	7.00
FIXED POINT:										·
SAMPLE MATRIX: [ SAMPLERS: <u>DP</u>	Soil (S)	□ s	Sedimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 13	3:00		DE	PTH OF	SAMPLE	(feet):				7.1.
SAMPLE DESCRIPTION										
SAMPLING METHOD	);									
QA/QC SAMPLES CO	OLLECTED:		quipme	ent Blan	k (EB)	☐ QA/QC Ex	tra Volu	ımes		
Trip Blank (TB)			Ouplicat	e of Wa	ter Sample	ID	<b></b>			
Ambient Conditio	n Blank (At	3) 🗆 F	Replicat	e of Soi	ا Sample ال	)				
				WAT	ER PARAM	METERS				
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BG=Background;		ing Zone	e; BH=		e; NR=No	Readings; HS=Hea	adspac	e; S=Sample	uncor	ntained)
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			BARE	ROW LA	B ·			ANCHO	RAGE	LAB
						-				
ANALYSES	/		CON	TAINER	S 	ANALYSES	1	CON	TAINE	HS
		V	WATER		SOIL			WATER		SOIL
TPH		1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter	-	8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020						TDS		250 ml		
						TSS		250 ml		
						TOC		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

Point Lonely	WI	EATHER	:	-		ETIO LIEADINI			
	FEET	FROM F	-IXED POIN	11:	MAGN	ETIC HEADING	ع:		
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			∟ v	vater (vv) Gr	Ouriaw	ater (GVV)			
0:00	DE	EPTH OF	SAMPLE	(feet):					
ION/COMM	ENTS: Trip bla	ınk recei	ved from la	b.					
D·									
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				тос		500 ml		4 oz	
				TCLP		2 liters		2 x 8 oz	
					1	1			
	Point Lonely Soil (S) 0:00 ION/COMMI D: COLLECTED On Blank (Al	Point Lonely Williams FEET  Soil (S) Sedime  0:00 DE  ION/COMMENTS: Trip bla  D: COLLECTED: Equipm Duplica  On Blank (AB) Replica  PH CON  PID READING (ppm)  BAR  WATER  1 liter	Point Lonely WEATHER FEET FROM F  Soil (S) Sediment (SD)  O:00 DEPTH OF ION/COMMENTS: Trip blank receiv  COLLECTED: Equipment Blan Duplicate of Water On Blank (AB) Replicate of Soil  WATER  BZ=Breathing Zone; BH=Boreho  CHECK BARROW LA CONTAINER WATER  1 liter	Point Lonely WEATHER:  FEET FROM FIXED POINT  Soil (S) Sediment (SD) V  COO DEPTH OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SOIL SAMPLE OF SAMPLE OF SAMPLE OF SOIL SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF SAMPLE OF S	Soii (S)   Sediment (SD)   Water (W)   Group	Soil (S)	Soil (S)	Soil   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Sediment   Se	

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

DATE: <u>08/24/93</u>	FE: 08/24/93 SAMPLE ID: LON-EB-01									
RADAR STATION: P										
SITE/AOC:		FE	ET FROM	FIXED POI	NT:	_ MAG	ENETIC HEAD	NG: _		
FIXED POINT:										
SAMPLERS: RT. RC		☐ Sedim	ent (SD)		Vater (W) ☐ G	roundw	rater (GW)			
TIME SAMPLED: 18			DEPTH OI	SAMPLE	(feet):					
SAMPLE DESCRIPTI	ON/COMME	NTS: Equip	ment rins	ate from a o	disposable scoop.					
SAMPLING METHOD	: <u>HPLC rea</u>	agent grade v	water over	r a disposal	ole scoop.					
QA/QC SAMPLES CO	OLLECTED:									
☐ Trip Blank (TB)		☐ Duplic	cate of Wa	ater Sample	ID					
☐ Ambient Conditio	n Blank (AE	3) 🗌 Replic	ate of So	il Sample I	)					
			WA	TER PARA	METERS	·		.,.		
TIME	PH	cc	NDUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y	URBIDITY	
						<del> </del>		_	, , , , , , , , , , , , , , , , , , ,	
	a Ki, bay Yashi Birahasi Jasi Jibar		1876 K. (1940AN) 2013	or acquired strains		SL-100000004444	THE WORLD	11 (31 240 BASE)	AND DESCRIPTION	
			MON	IITORING R	EADINGS			·		
					HANBY SCREEN	IING				
TIME	PID READ	ING (ppm)	CG/LE	EL (%)	(standard/ppm)					
BG=Background;	BZ=Breath	ing Zone; Bh	i=Boreho	le; NR=No	Readings; HS=Hea	idspac	e; S=Sample	(uncor	ntained)	
	et 1864 seles i 1874 MAR. est		✓ CHECK	ANALYSE	S REQUESTED	ideal and s		a garabene		
		ВА	RROW LA	∖B			ANCHO	RAGE	LAB	
ANALYSES		CC	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS	
		WATE	ER	SOIL			WATER		SOIL	
ТРН	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
РСВ	1				SVOC (8270)		1 liter		8 oz	
PESTICIDES	1				TOTAL METALS	1	1 liter		8 oz	
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	/				TDS	1	250 mi			
					TSS	1	250 ml			
					тос	1	500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

ATE: 08/25/93		SAI							
ADAR STATION: Po	oint Lonely	WE	ATHER:	Taken in	warehouse				
ITE/AOC:		FEET	FROM	FIXED POI	NT:	MAG	NETIC HEADIN	IG: _	
XED POINT:									
					urface Water (SW)				
AMPLERS:					feet):				· · · · · · · · · · · · · · · · · · ·
AMPLE DESCRIPTION	ON/COMME	NTS:							
ANADUNC METHOD	· HDI C ros	agent poured o	vor a dis	nosable si	coop				
					☐ QA/QC Ext				
					ID				
<b>-</b>		•			)				
	ar Blank (712	,							
			WAI	ER PARAN	METERS	<u> </u>			
TIME	PH	CON	DUCTIVI	TY	TEMPERATURE	SPE	CIFIC GRAVITY	TI	JRBIDITY
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			MON	TORING R	EADINGS				
					HANBY SCREEN	ING			
TIME	PID READ	ING (ppm)	CG/LE	L (%)	(standard/ppm)	*****			
BG=Background:	BZ=Breath	ing Zone; BH=	=Borehol	le; NR=No	Readings; HS=Hea	dspace	e; S=Sample (	uncon	tained)
		J	CHECK	ANALYSE	S REQUESTED				
		<u> </u>	ROW LA				ANCHO	RAGE	LAB
					1				
ANALYSES	1	CON	NTAINER	S	ANALYSES	1	CON	TAINE	<del></del>
		WATER	٦	SOIL			WATER		SOIL
TPH	1	1 liter	*****	8 oz	VOC (8260)	1	3 x 40 mi		4 oz
PCB	/				SVOC (8270)	1	1 liter		8 oz
					TOTAL METALS	1	1 liter		8 oz
PESTICIDES									
HVOC 8010	/	1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
				TSS		250 ml			
					тос	1	500 ml		4 oz
					TCLP		2 liters		2 x 8 oz
11					1				<u> </u>

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/26/93</u>			SAN	MPLE IL	: LON-EB	-03				
RADAR STATION: <u>P</u>	oint Lonely	t Lonely WEATHER: FEET FROM FIXED POINT: MAGNETIC HEADING:								
			_ FEET	FROM	FIXED POI	NT:	_ MAG	NETIC HEADI	NG: _	
FIXED POINT:				. (0.0)				0	(C)40	
SAMPLE MATRIX: [ SAMPLERS: DP	」Soil (S)			t (SD)	⊔ 8	urrace water (Sw)	<u>'</u>	arounowater (	(GVV)	
TIME SAMPLED: 18	3:00		DEF	PTH OF	SAMPLE (	feet):				
SAMPLE DESCRIPTI	ON/COMM	IENTS: _	HPLC w	ater (org	ganic). Lat	DI (inorganic).				
SAMPLING METHO	): Water th	rough si	2000	<u> </u>						
QA/QC SAMPLES C				ent Blan	k (EB)	☐ QA/QC Ext	ra Volu	mes		
☐ Trip Blank (TB)	00000101					ID				
☐ Ambient Condition	on Blank (A									
				WAT	ER PARAM	METERS				, <u>, , , , , , , , , , , , , , , , , , </u>
TIME	PH		CONE	DUCTIVI	TY	TEMPERATURE	SPE	CIFIC GRAVIT	ΥT	URBIDITY
1	Security bearing to the	althousantistics			Eller State of the Section		en Karantan da	TANG BERTAKAN PERSENTAN	on a solution	e in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of
	1			MON	TORING R	EADINGS			<del></del>	
70.45	DID DEA	DINC (n	om)	CGILE	1 (0/)	HANBY SCREEN	IING			
TIME	PID REA	DING (P	pm)	CG/LE	L (%)	(standard/ppm)				
		<del> </del>								
BG=Background;	BZ=Breat	hing Zon	ie; BH=	Borehol	e; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncor	itained)
			1	CHECK	ANALYSES	REQUESTED				
			BARF	ROW LA	.B			ANCHO	RAGE	LAB
ANALYSES			CON	TAINER	s	ANALYSES	1	CON	TAINE	RS
AIVALISES			WATER		SOIL	AITALIOLO		WATER		SOIL
TDU		1 liter			8 oz	VOC (8260)	1	3 x 40 ml		4 oz
TPH PCB	1	1 inter			6 02	SVOC (8270)	1	1 liter		8 oz
PESTICIDES	/	-				TOTAL METALS	1	1 liter		8 oz
HVOC 8010	<del></del>	1 x 4	) ml		4 oz	DISS METALS	-	1 liter		
VOC-BTEX 8020	/	┤ ' ^ "'	J 1111		7 02	TDS		250 ml		
VOO-B1EX 0020		<del> </del>		1		TSS		250 ml		
						<del> </del>				
		<u> </u>				TOC		500 ml	l	4 oz
		-				TCLP		2 liters	]	2 x 8 oz
		ļ			1					

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/27/93</u>										
RADAR STATION: <u>Po</u>	oint Lonely	WE	EATHER:				NETIC LEADU	NC:		
SITE/AOC:			FFROM	FIXED POI	VI:	MAG	NETIC HEADII	NG: _		
FIXED POINT: SAMPLE MATRIX: [			(CD)	Пс	urfano Mator (SM)		Groundwater (	GWA		
SAMPLE MATRIX: L SAMPLERS: <u>DP</u>			nt (SD)		unace water (3w)	L., '	Giodilawatei (	GVV)		
TIME SAMPLED: 15			PTH OF	SAMPLE (	feet):					
SAMPLE DESCRIPTION										
SAMPLING METHOD										
QA/QC SAMPLES CO										
_ ' ' '					ID					
Ambient Condition	n Blank (AE	B) 🗀 Replica	te of Soi	Sample IL	)					
			WAT	TER PARAM	METERS					
TIME	PH	CON	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   TI	JRBIDITY	
		COMPANY OF THE PROPERTY OF	Pa Mila no series de	Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the 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			MON	ITORING R	EADINGS					
					HANBY SCREEN	IING				
TIME	PID READ	ING (ppm)	CG/LE	L (%)	(standard/ppm)					
BG-Background:	BZ=Breath	ina Zone: BH=	=Boreho	le: NR=No	Readings; HS=Hea	dspace	e: S=Sample (	uncon	tained)	
Bd-Bdokgrodika,			et i se Sørrege		Control of the second of the second of the second		Scannen a Establish (S. 20		eng a caus (n a 4226sa ase 2	
		<b>√</b>	CHECK	ANALYSES	REQUESTED					
		BAR	ROW LA	AB			ANCHO	RAGE	LAB	
ANALYSES	1	CON	NTAINER	IS	ANALYSES	1	CON	TAINE	RS	
		WATER	₹	SOIL			WATER		SOIL	
ТРН	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
РСВ	1				SVOC (8270)	1	1 liter		8 oz	
PESTICIDES					TOTAL METALS	1	1 liter		8 oz	
HVOC 8010	1	1 x 40 mi		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020	1				TDS		250 ml			
					TSS		250 ml			
					тос	1	500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	
<u> </u>										

Preservation:

HVOC and VOC: HCI to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/04/93</u>			SAN	MPLE ID	): <u>LON-EB</u> -	05				
RADAR STATION: PO										
SITE/AOC:			FEET F	ROM F	IXED POIN	T:	MAGN	ETIC HEADIN	G:	
FIXED POINT:										
SAMPLE MATRIX: SAMPLERS: PG, MI		☐ Se	edimen	t (SD)	□s	urface Water (SW)		Groundwater (	(GW)	
TIME SAMPLED: 17			DEF	PTH OF	SAMPLE (	feet):				
SAMPLE DESCRIPTION										
or with the Debot in the	51 1, G G 11 11 11 12									
SAMPLING METHOD										***************************************
QA/QC SAMPLES CO	DLLECTED:									
☐ Trip Blank (TB)			uplicate	e of Wa	ter Sample	ID		<del> </del>		
Ambient Conditio	n Blank (AE	3) L Re	eplicate	of Soi	I Sample ID					
					ER PARAM					
TIME	PH		COND	UCTIVI	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	YT	URBIDITY
				·						
Sales and resibered					ITORING RI	EADINGS		And and the second	a Transcio (Lips)	
	4					HANBY SCREEN	ling			
TIME	PID READ	ING (ppr	ING (ppm) CG/LEL (%) (standard/pp							
BG=Background;	BZ=Breath	ing Zone	; BH=6	Borehol	e; NR=No	Readings; HS=Hea	dspace	e; S=Sample	(uncon	tained)
		Occupations Special Conference				REQUESTED				Market Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the
			BARR	OW LA	В			ANCHORAGE		LAB
ANALYSES			CONT	TAINER	S	ANALYSES	1	CON	TAINE	RS
		W	VATER		SOIL			WATER		SOIL
TPH	1	1 liter			8 oz	VOC (8260)	1	3 x 40 mi		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
						TPH	1			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $HNO_3$  to pH <2; ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/<b>0</b>5/93</u>			MIVIE LE I	D: LON-EE	1-00				
RADAR STATION: PO									*****
SITE/AOC:		FEET	FROM	FIXED POIN	NT:	MAGN	IETIC HEADIN	G:	
FIXED POINT:			1 107 1						
SAMPLE MATRIX:		☐ Sedim	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML, PC			ERTH O	ECAMBLE	(foot):			·	
TIME SAMPLED: 15		U	EPIR O	r SAMPLE	(reet):				
SAMPLE DESCRIPTION	JN/GOIVIIVIE		<del></del>						
SAMPLING METHOD	: <u>Grab</u>								
QA/QC SAMPLES CO	OLLECTED:			· ·	☐ QA/QC Ex				
☐ Trip Blank (TB)		☐ Duplic	ate of Wa	ater Sample	ID				
☐ Ambient Condition	n Blank (Af	B) 🗌 Replica	ate of So	il Sample II	)				
			WA	TER PARA	METERS	<b></b>			
TIME	PH	cor	NDUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y 1	URBIDITY
	หรองกับเกี่ยว สิธิส จับประชาการ		MON	IITORING R	EADINGS			ara in Linguis an	
	20 25.5		00"5	*1 /~/ \	HANBY SCREEN	ling			!
TIME	PID READ	ING (ppm)	CG/LE	EL (%)	(standard/ppm)				
		· · · · · · · · · · · · · · · · · · ·							
BO Basharawan	D7 D	: 7 DII	D	In ND No	Danis - 110 Had		. 0 0	<u> </u>	
BG=Background;	BZ=Breath	ing Zone; BH	=8oreno	ie; NH=NO	Readings; HS=Hea	laspac	e; 5=5ample (	uncor	itainea)
			CHECK	ANALYSES	REQUESTED				
		BAF	ROW LA	AB			ANCHO	RAGE	LAB
ANALYSES	1	CO	NTAINER	is .	ANALYSES	1	CON	TAINE	RS
		WATE	٦	SOIL			WATER		SOIL
ТРН	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz
РСВ		!			SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1				TDS		250 ml		
					TSS		250 ml		
					тос		500 ml		4 oz
					TCLP		2 liters		2 x 8 oz
					TPH	1			

Preservation:

HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

MAGNETATION:   Point Lenety   MEATHER:   Cool, light rain. calem to slightly windy   STEIAGOC   AB	DATE: <u>08/25/93</u>		S/	AMPLE	D: LON-AL	3-01						
International Control outside warehouse		-										
SAMPLE MATRIX   Soli (S)   Sediment (SD)   Surface Water (SW)   Groundwater (GW)   SAMPLERS   SAMPLERS   SAMPLED   21:00   DEPTH OF SAMPLE (feet):   SAMPLED   SAMPLED   21:00   DEPTH OF SAMPLE (feet):   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   SAMPLED   S				ET FROM	M FIXED PO	DINT:	_ MA	GNETIC HEAD	ING:			
MANUAL SAMPLES:   21:00   DEPTH OF SAMPLE (feet):   SAMPLE DESCRIPTION/COMMENTS:   Ambient condition blank, poured HPLC reagant into VOA vial.				10.00								
DEPTH OF SAMPLE (feal)   SAMPLED   21:00   DEPTH OF SAMPLE (feal)   SAMPLED DESCRIPTION/COMMENTS. Ambient condition blank, poured HPLC reagant into VOA vial.   SAMPLEN METHOD:						Surface Water (SW)		Groundwater	(GW)			
MAMPLING METHOD:	TIME SAMPLED: 21	:00	D	EPTH O	FSAMPLE	(feet):						
CAVOC SAMPLES COLLECTED:	SAMPLE DESCRIPTION	ON/COMME	ENTS: Ambier	nt condit	ion blank, p	ooured HPLC reagar	nt into \	VOA vial.				
CAVOC SAMPLES COLLECTED:			<del> </del>									
Trip Blank (TB)												
MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATER   MATE		OLLECTED:										
TIME		n Dinni. (Ar										
TIME	Ambient Conditio	III DIANK (At	s) $\square$ Replica	ite or So	oii Sampie it	<i></i>						
MONITORING READING				WA	TER PARA	METERS						
TIME	TIME	PH	CON	1DUCTIV	'ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Y   T	URBIDITY		
TIME												
TIME							1					
TIME							<del> </del>	·				
TIME			- (CANOSA - C. )				Salar Palagragia	The Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitute of the Substitu	t et a feletifika			
TIME         PID READING (ppm)         CG/LEL (%)         (standard/ppm)           BG=Background:         BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)           V CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANALYSES         ANCHORAGE LAB           ANALYSES         V         CONTAINERS         ANALYSES         V           TPH         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         V         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         V         TDS         250 ml            TOS         500 ml          4 oz				MON	IITORING R	EADINGS						
BG=Background: BZ=Breathing Zone; BH=Borehole; NR=No Readings; HS=Headspace; S=Sample (uncontained)  ✓ CHECK ANALYSES REQUESTED  BARROW LAB  ANALYSES ✓ CONTAINERS  WATER  SOIL  TPH  1 liter  8 oz  VOC (8260)  SVOC (8270)  1 liter  8 oz  PESTICIDES  HVOC 8010 ✓ 1 x 40 ml  4 oz  DISS METALS  1 liter  TDS  250 ml  TOC  500 ml  4 oz	TIME	PID BEAT	ING (nnm)	CG/LF	=1 (%)		NING					
✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANCHORAGE LAB           ANALYSES         ✓ CONTAINERS         ✓ CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         VOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         Involved         Involved         Involved         Involved         Involved           VOC-BTEX 8020         Involved         Involved         Involved         Involved         Involved         Involved           Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved <td>THVIC</td> <td>TID NEAD</td> <td>лис (ррпп)</td> <td>OG/LE</td> <td>L (70)</td> <td>(Staridard/ppiii)</td> <td></td> <td></td> <td>_</td> <td></td>	THVIC	TID NEAD	лис (ррпп)	OG/LE	L (70)	(Staridard/ppiii)			_			
✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANCHORAGE LAB           ANALYSES         ✓ CONTAINERS         ✓ CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         VOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         Involved         Involved         Involved         Involved         Involved           VOC-BTEX 8020         Involved         Involved         Involved         Involved         Involved         Involved           Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td>									_			
✓ CHECK ANALYSES REQUESTED           BARROW LAB         ANALYSES         ANCHORAGE LAB           ANALYSES         ✓ CONTAINERS         ✓ CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         VOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         Involved         Involved         Involved         Involved         Involved           VOC-BTEX 8020         Involved         Involved         Involved         Involved         Involved         Involved           Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved         Involved <td></td> <td></td> <td>····</td> <td><u> </u></td> <td></td> <td></td> <td></td> <td>ļ</td> <td></td> <td></td>			····	<u> </u>				ļ				
BARROW LAB   BARROW LAB   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANALYSES   ANAL	BG=Background;			=Boreho	le; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncor	ntained)		
BARROW LAB       ANCHORAGE LAB         ANALYSES       ✓       ANCHORAGE LAB         CONTAINERS       ✓       CONTAINERS         WATER       SOIL       WATER       SOIL         TPH       1 liter       8 oz       VOC (8260)       3 x 40 ml       4 oz         PESTICIDES       500 ml       1 liter       8 oz         HVOC 8010       ✓       1 x 40 ml       4 oz       DISS METALS       1 liter          VOC-BTEX 8020       ✓       TDS       250 ml          TOC       500 ml       4 oz		Jane Managara (State of State		CHECK	ANALYSE	S BEQUESTED	arakakan da da da da da da da da da da da da da		dia paggaran			
ANALYSES         ✓         CONTAINERS         ✓         CONTAINERS           WATER         SOIL         WATER         SOIL           TPH         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TOS         250 ml            TOC         500 ml         4 oz						The document of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of		ANGUG	\D \ C \	LAD		
WATER         SOIL         WATER         SOIL           TPH         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         Image: Vocant of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control			DAF	INOW LA	<del>1</del> 0			ANONC	MAGE	LAB		
TPH         1 liter         8 oz         VOC (8260)         3 x 40 ml         4 oz           PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         Image: Arrow of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of t	ANALYSES	1	CO	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS		
PCB         SVOC (8270)         1 liter         8 oz           PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         Image: Liter of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of			WATE	3	SOIL			WATER		SOIL		
PESTICIDES         TOTAL METALS         1 liter         8 oz           HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml             TOC         500 ml         4 oz	TPH		1 liter		8 oz	VOC (8260)		3 x 40 ml		4 oz		
HVOC 8010         ✓         1 x 40 ml         4 oz         DISS METALS         1 liter            VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml            TOC         500 ml         4 oz	РСВ					SVOC (8270)		1 liter		8 oz		
VOC-BTEX 8020         ✓         TDS         250 ml            TSS         250 ml            TOC         500 ml         4 oz	PESTICIDES					TOTAL METALS		1 liter		8 oz		
TSS 250 ml TOC 500 ml 4 oz	HVOC 8010	1	1 x 40 ml		4 oz	DISS METALS		1 liter				
TOC 500 ml 4 oz	VOC-BTEX 8020	/		_		TDS		250 ml				
						TSS		250 ml				
TCLP 2 liters 2 x 8 oz						тос		500 ml		4 oz		
					-	TCLP		2 liters		2 x 8 oz		

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; Ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

ATE: 08/27/93			SAM	IPLE ID:	LON-AB-	02				
LEAD OF LEIGHT	.:		\A/ <b>=</b> /	THER						
TE/AOC: AB			_ FEET	FROM	FIXED POI	NT:	- WAG	NETIO FIEADII	.u	
XED POINT:	Soil (S)	□s	ediment	(SD)	□ Sı	urface Water (SW)		Groundwater (G	W)	
ME SAMPLED:			_ DEF	TH OF	SAMPLE (1	eet):				
AMPLE DESCRIPTION	ON/COMME	NTS: <u>⊦</u>	IPLC wa	ater.						
AMPLING METHOD	Direct into	bottle								
A/QC SAMPLES CO	DLLECTED:		quipme	nt Blank	(EB)	☐ QA/QC Extr	a Volu	mes		
Trip Blank (TB)			Ouplicate	of Wate	er Sample	ID				
Ambient Conditio	n Blank (AB	) 🗆 F	Replicate	of Soil	Sample ID					
				WAT	ER PARAM	ETERS				
TIME	PH		CONE	UCTIVIT	ry	TEMPERATURE	SPEC	CIFIC GRAVITY	TL	IRBIDITY
		······								
	. Typick tydl. soni (***	Salaz _{ija} , 1886 (	CT-ICNOSTIC IA	. कर्म केंद्र ( के विकास		CADINGC	energi ya mejalini	Pagging Control of the William Street Street Street Street Street Street Street Street Street Street Street St		CARE SOLICE SELECTION SE
				MONI	TORING RI	1			T	
TIME	PID READ	ING (pr	nm)	CG/LEI	L (%)	HANBY SCREEN (standard/ppm)	ING			
THVIC	TIDALDAD	то (р	-		_ ( ,					
				<del> </del>						
		<b>-</b>		Darabal	or NID-No	Readings; HS=Hea	dspace	e: S=Sample (	ıncon	tained)
BG=Background;	BZ=Breath	ng zon	and Sugardia Provider	A TOTAL STREET	<u>an garanta ay an tao ay an tao an an an an an an an an an an an an an </u>	<ul> <li>The street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the</li></ul>			ling talk so	1994 (A. S.A. 1986)
			1	CHECK	ANALYSES	S REQUESTED				
			BARF	ROW LA	В			ANCHO	HAGE	LAB
ANALYSES	1		CON	TAINER	s	ANALYSES	1	CON	AINE	RS
			WATER		SOIL			WATER		SOIL
TPH		1 liter	<del></del>		8 oz	VOC (8260)		3 x 40 mi		4 oz
PCB						SVOC (8270)		1 liter		8 oz
						TOTAL METALS		1 liter		8 oz
PESTICIDES	<del>-  </del>	1 1 4	0 ml		4 oz	DISS METALS		1 liter		
HVOC 8010	/	1 x 4	O IIII		7 02	TDS	<del> </del>	250 ml		
VOC-BTEX 8020						TSS		250 mi		
		<del>                                     </del>					-	500 ml		4 oz
			,	<del> </del>		TOC	-	2 liters		2 x 8 oz
						TCLP	-	ZINUIS		2 1 0 02
							<u></u>			<u></u>

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>08/24/93</u>			SA	MPLE I	D: LON-GA	AR-TB				
RADAR STATION: Po	oint Lonely		WE	EATHER	ł:					
SITE/AOC:			FEET!	FROM I	FIXED POIN	NT:	MAGN	IETIC HEADIN	IG:	
FIXED POINT: Garage	е				<del></del>					
SAMPLE MATRIX:		□s	Sedimer	nt (SD)		Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML, JM								· · · · · · · · · · · · · · · · · · ·		
TIME SAMPLED: 12:								1.5		
SAMPLE DESCRIPTIO					garage to t	determine whether s	ampie (	containers lett	in poo	rly ventilated
area were contaminate SAMPLING METHOD:		Trip Dian	K useu.							
QA/QC SAMPLES CO		.     F		ent Blar	or (ER)	☐ QA/QC Ex	tra Voli	ımoe	·	
Trip Blank (TB)	/LLLO1					D UAVUC EX				
☐ Ambient Condition	n Blank (Af							**************************************		<del></del>
		-/			TER PARAM					
TIME	PH		CONL	DUCTIV	ITY	TEMPERATURE	SPE	CIFIC GRAVIT	YT	URBIDITY
							1		_	
	Land Selection (See	Dedicalis Specials.	and analysis.	vestalisa (ilika)	E Source of the State of		. The second		1700 N.C.A. (FI)	a Maria de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de
				MON	ITORING R	EADINGS				
						HANBY SCREEN	IING			
TIME	PID READ	ING (pp	m)	CG/LE	L (%)	(standard/ppm)				
	_									
RG-Rackground: F	27—Brooth	ing Zone	<u>-</u>	Parabal	lo: ND. No.	Deadings 110 U.S.		. 0 0		
DG=Dackground, L	3∠=Dibaiii	ing zone	); bn=(		le; NH=No	Readings; HS=Hea	aspaci	e; S=Sample	(uncor	itained)
			. (	CHECK	ANALYSES	REQUESTED				
			BARR	ROW LA	.B			ANCHORAGE		LAB
ANALYSES			CONT	TAINER	9	ANALYSES		CON	TAINE	DC
VIAVETOFO				TAIRE .		AINALISES	<b>√</b>			
			VATER		SOIL			WATER		SOIL
TPH		1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
PCB						SVOC (8270)		1 liter		8 oz
PESTICIDES				,		TOTAL METALS		1 liter		8 oz
HVOC 8010	1	1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020	1					TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz

Preservation:

HVOC and VOC: HCI to pH <2; metals: HNO₃ to pH <2; ice all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/05/93</u>				ID: <u>LON-ID</u>	W-01				
RADAR STATION: F				VEATHER:					
SITE/AOC:		FEET	FROM	FIXED POIN	NT:	MAG	VETIC HEADI	۱G:	
FIXED POINT:									
SAMPLE MATRIX: [ SAMPLERS: ML, P		☐ Sedime	ent (SD)		Surface Water (SW)		Groundwater	(GW)	
TIME SAMPLED: 1	6:00	DI	EPTH O	F SAMPLE	(feet):				
SAMPLE DESCRIPTI									
SAMPLING METHOD	D: Grab								
QA/QC SAMPLES C	OLLECTED				☐ QA/QC Ex				
☐ Trip Blank (TB)					) ID				
Ambient Condition	on Blank (A	B) 📙 Replica	ite of Sc	oil Sample II	)				
			WA	TER PARA	METERS				
TIME	PH	CON	IDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVI	ry 7	TURBIDITY
									V - 1.1.2
	ombridala estable de la combridada de la combridada de la combridada de la combridada de la combridada de la c	TO PARK SAME	MON	IITORING R	FADINGS	it i ripamenens	Andrews (A. D. Charles)	CAR SERVICE	
			1		HANBY SCREEN	UNIC			
TIME	PID READ	DING (ppm)	CG/LE	EL (%)	(standard/ppm)	NING			
BG=Background;	BZ=Breath	ning Zone; BH=	-Boreho	ole; NR=No	Readings; HS=Hea	adspac	e; S=Sample	(uncor	ntained)
	allegen (1865) _{er} med fin kommunikationelle				REQUESTED				
		BARI	ROW LA	<b>√</b> B			ANCHO	DRAGE	E LAB
ANALYSES		CON	ITAINER	RS	ANALYSES	,	CON	ITAINE	RS
		WATER		SOIL			WATER		SOIL
ТРН		1 liter		8 oz	VOC (8260)	1	3 x 40 mi		4 oz
РСВ					SVOC (8270)		1 liter		8 oz
PESTICIDES					TOTAL METALS	1	1 liter		8 oz
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020					TDS		250 ml		***
					TSS		250 ml		•••
					тос		500 ml		4 oz
			<del></del>		TCLP		2 liters		2 x 8 oz
1		1			TPH	1			

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample ID Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/08/93</u>										
RADAR STATION: P	oint Lonely	V	VEATHE	R:			<del></del>			
SITE/AOC:		FEE	T FROM	FIXED POI	NT:	MAGN	IETIC HEADIN	IG:		
FIXED POINT:				<u> </u>						
SAMPLERS: RT, RC		☐ Sedim	ient (SD)		Surface Water (SW)		Groundwater	(GW)		
TIME SAMPLED: 18			DEPTH O	F SAMPLE	(feet):					
SAMPLE DESCRIPTI							7.2		·	
SAMPLING METHOD	D: <u>Grab</u>									
QA/QC SAMPLES C	OLLECTED	: 🗌 Equip	ment Bla	nk (EB)	QA/QC Ex	tra Vol	umes			
☐ Trip Blank (TB)		☐ Duplic	ate of W	ater Sample	D					
Ambient Condition	n Blank (Al	B) 🗌 Replic	ate of Sc	oil Sample II	D					
				TER PARA						
TIME	PH	co	NDUCTIV	/ITY	TEMPERATURE	SPE	CIFIC GRAVIT	Υ	URBIDITY	
								-		
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					HANBY SCREEN	IING				
TIME	PID READ	DING (ppm)	CG/L	EL (%)	(standard/ppm)					
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50.5			<u></u>					<del></del>		
BG=Background;	BZ=Breath	ling Zone; BH	=Boreho	ole; NR=No	Readings; HS=Hea	idspac	e; S=Sample	(uncoi	ntained)	
		J	CHECK	( ANALYSE:	S REQUESTED					
		BAF	RROW LA	AB			ANCHO	DRAGE	IΔR	
				*						
ANALYSES		CO	NTAINEF	RS	ANALYSES	1	CON	TAINE	RS	
		WATE	R	SOIL			WATER		SOIL	
TPH	1	1 liter		8 oz	VOC (8260)	1	3 x 40 ml		4 oz	
PCB	1				SVOC (8270)	1	1 liter		8 oz	
PESTICIDES					TOTAL METALS	1	1 liter		8 oz	
HVOC 8010		1 x 40 ml		4 oz	DISS METALS		1 liter			
VOC-BTEX 8020					TDS		250 ml			
					TSS		250 ml			
					тос		500 ml		4 oz	
					TCLP		2 liters		2 x 8 oz	
					HERBICIDES	1				

Preservation:

HVOC and VOC: HCl to pH <2; metals:  $\mathrm{HNO_3}$  to pH <2; lce all samples to 4°C

Sample iD Format:

Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

Radar Station Codes:

DATE: <u>09/05/93</u>			SA	MPLE II	D: <u>LON-AF</u>	CEE-1,2,3,4,5,6,7,8,	9			
RADAR STATION: P	oint Lonely		WE	EATHER	: Partly clo	oudy, breezy, 38°F				
SITE/AOC: AFCEE			FE	ET FRO	M FIXED F	POINT: 180	\	MAGNETIC HE	ADING	6: <u>105°</u>
FIXED POINT: Secon	nd land sho	oulder fro	om land	dfill on ti	ne left, on r	oad out to fresh wa	ter sup	ply lake.		
SAMPLE MATRIX:	Soil (S)	□s	Sedime	nt (SD)	$\Box$ :	Surface Water (SW)		Groundwater	(GW)	
SAMPLERS: ML, PC										
TIME SAMPLED: 12					SAMPLE					
SAMPLE DESCRIPTI									in by	dark, brown
organic poop, silty cl				ration.	Samples su	ubmitted to AFCEE I	for spe	cial analyses.		
SAMPLING METHOD			•							
QA/QC SAMPLES CO	OLLECTED									
Trip Blank (TB)	= Dianic (Al					e ID				·
Ambient Conditio	п віапк (Аі	ď) ∐ r	{epiicai	te of So	il Sampie ii	)				
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BG=Background:	BZ=Breath	ina Zone	=: BH=	Boreho	le: NR=No	Readings; HS=Hea	adspace	e: S=Sample (	uncor	ntained)
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ANALISES						ANALISES	/		171111	
		<u> </u>	VATER		SOIL			WATER		SOIL
TPH		1 liter			8 oz	VOC (8260)		3 x 40 ml		4 oz
РСВ						SVOC (8270)		1 liter		8 oz
PESTICIDES						TOTAL METALS		1 liter		8 oz
HVOC 8010		1 x 40	ml		4 oz	DISS METALS		1 liter		
VOC-BTEX 8020		1				TDS		250 ml		
						TSS		250 ml		
						тос		500 ml		4 oz
						TCLP		2 liters		2 x 8 oz
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#### SAMPLES SUBMITTED TO AFCEE FOR SPECIAL ANALYSES.

Preservation: HVOC and VOC: HCl to pH <2; metals: HNO₃ to pH <2; lce all samples to 4°C

Sample ID Format: Radar Station - site identifier - matrix + sample number - depth (feet)

(i.e., BUL-ST05-SW07, BTR-EB04, WRT-SS08-S09-5.0)

# APPENDIX E CHAIN-OF-CUSTODY FORMS

ICF KOSER FNGINEERS

#### CHAIN OF CUSTODY RECORD

NG 0416

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NO. 0417

ICF KAISER CHAIN OF CUSTODY RECORD

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#### CHAIN OF CUSTODY RECORD

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ICF KOSER ENGINEERS

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CHAIN OF CUSTODY RECORD ENGINEERS ICF KAISER

NO. 0425

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ICF KNISER ENGINEERS

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CHAIN OF CUSTODY RECORD ICF KAISER ENGINEERS

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ICF KOSER ENGINEERS



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CHAIN OF CUSTODY RECORD ICF KAISER ENGINEERS

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CHAIN OF CUSTODY RECORD

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# ICF NOINEERS CHAIN OF CUSTODY RECORD



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CHAIN OF CUSTODY RECORD

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ENGINEERS ICF KAISER

CHAIN OF CUSTODY RECORD

NO. 0487

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#### APPENDIX F

#### **ANALYTICAL DATA**

- 1. SUMMARY TABLES OF ANALYTICAL DATA (presented in Sections 3.0 and 4.0)
- 2. CROSS-REFERENCE TABLE FOR SAMPLE IDENTIFICATION
- 3. ANALYTICAL DATA (for each site CT&E Data is presented first followed by F&B Data)

2. CROSS-REFERENCE TABLE FOR SAMPLE IDENTIFICATION

#### CROSS-REFERENCE SAMPLE IDENTIFICATION

SAMPLE	DESCRETION		Soil	Soil	Soil	Soil Duplicate	Soil Spike	Soil Spike Duplicate	Soil	Soil	Soil	Soil
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93	#6-08/28/93	#6-08/28/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93
LABORA	СТ&Е								93.4425			
LABORATORY	F&B		852	854	858	858	858	858	860	862	864	998
LABOR	CT&E	301)			:				93.4425-1			
FIELD BATCH IDENTIFICATION	F&B	Sewage Disposal Area (SS01)	424	424	424	424	424	424	424	424	424	424
FIELD	CT&E	Sewage Dis							415			
SITE	IDENTIFICATION		SS01	SS01	SS01	SS01	SSO1	SS01	SS01	SS01	SS01	SS01
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-SS01-S01	LON-SS01-S02-3	LON-SS01-S03	LON-SS01-S03DP	LON-SS01-S03S	LON-SS01-S03SD	LON-SS01-S04	LON-SS01-S05	LON-SS01-S06	LON-SS01-S07-1
RI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-SS01-S01	LON-SS01-S02-3	LON-SS01-S03	LON-SS01-S03	LON-SS01-S03	LON-SS01-S03	LON-SS01-S04	LON-SS01-S05	LON-SS01-S06	LON-SS01-S07-1

CT&E - Commercial Testing and Engineering Co. F&B - Friedman and Bruya, Inc.

SAMPLE	DESCRIPTION		Soil	Soil	Soil	Soil Duplicate	Soil Spike	Soil Spike Duplicate	Soil	Soil	Soil	Soil
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93
LABORA	CT&E											
ATORY CATION	F&B		868	870	872	872	872	872	874	876	878	880
LABORATORY	CT&E	01)										
FIELD BATCH	F&B	Sewage Disposal Area (SS01)	424	424	424	424	424	424	424	424	424	424
FIELD	CT&E	Sewage Disp										
SITE	IDENTIFICATION		SS01									
FIELD CHAIN-OF-	VALIDATION SAMPLE IDENTIFICATION		LON-SS01-S08-2.5	FON-SS01-S09	LON-SS01-S10-04	LON-SS01-S10-04DP	LON-SS01-S10-04S	LON-SS01-S10-04SD	LON-SS01-S11	LON-SS01-S12-2.5	LON-SS01-S13-01	LON-SS01-S14-03
EVICE TEXT AND TARIE	SAMPLE IDENTIFICATION		LON-SS01-S08-2.5	LON-SS01-S09	LON-SS01-S10-04	LON-SS01-S10-04	LON-SS01-S10-04	LON-SS01-S10-04	LON-SS01-S11	LON-SS01-S12-2.5	LON-SS01-S13-01	LON-SS01-S14-03

Commercial Testing and Engineering Co. Friedman and Bruya, Inc. CT&E -F&B -

	SAMPLE			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Sediment	Sediment	Sediment	Sediment	Surface Water	Surface Water	Surface Water
UOTVO VOOT	IDENTIFICATION	F&B		#6-08/28/93 #3-08/28/93 #4-08/29/93	#5-09/08/93	#5-09/08/93	#5-09/08/93	#5-09/08/93	#5-09/08/93	#5-09/08/93 #1&2-09/07/93	#6-08/28/93 #1&2-08/31/93	#6-08/28/93 #1&2-08/31/93	#6-08/28/93 #3&4-08/31/93	#6-08/28/93 #3&4-08/31/93	#5-08/28/93 #3-08/28/93 #4-08/29/93	#5-08/28/93 #3-08/28/93 #4-08/29/93	#5-08/28/93 #3-08/28/93 #4-08/29/93
, d	IDEN	CT&E		93.4425							93.4425			93.4425	93.4430		
X	LABORATORY IDENTIFICATION	F&B		882	1780	1781	1782	1783	1784	1786	884	988	888	068	917 918	921 922	925 928
	LABOR	CT&E	301)	93.4425-4							93.4425-2			93.4425-3	93.4430-1		
	FIELD BATCH IDENTIFICATION	я В	Sewage Disposal Area (SS01)	424	483	483	483	483	483	483	423	423	423	423	420	420	420
	FIELD	CT&E	Sewage Disp	415							415			415	403		
	SITE	IDENTIFICATION		SS01	SS01	SS01	SS01	SS01	SS01	SS01	SS01	SS01	SS01	SS01	SS01	SS01	SS01
	FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-SS01-S15	LON-SS01-2S16-1	LON-SS01-2S17-1	LON-SS01-2S18-1	LON-SS01-2S19	LON-SS01-2S20	LON-SS01-2S21-1.5	LON-SS01-SD01	LON-SS01-SD02	LON-SS01-SD03	LON-SS01-SD04	LON-SS01-SW01	LON-SS01-SW02	LON-SS01-SW03
	RI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-SS01-S15	LON-SS01-2S16-1	LON-SS01-2S17-1	LON-SS01-2S18-1	LON-SS01-2S19	LON-SS01-2S20	LON-SS01-2S21-1.5	LON-SS01-SD01	LON-SS01-SD02	LON-SS01-SD03	LON-SS01-SD04	LON-SS01-SW01	LON-SS01-SW02	LON-SS01-SW03

CT&E - Commercial Testing and Engineering Co. F&B - Friedman and Bruya, Inc.

CT&E - Commercial Testing and Engineering Co. Friedman and Bruya, Inc.

SAMPLE	DESCRIPTION		Soil	Soil	Soil	Soil	Soil	Soil	Soil Duplicate	Soil Spike	Soil Spike Duplicate	Soil	Soil
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/28/93 #1&2-08/28/93	#6-08/28/93 #1&2-08/28/93	#6-08/28/93 #1&2-08/28/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93
LABORA	CT&E			93.4425									
LABORATORY IDENTIFICATION	F&B		964	862	1032	1036	1038	1040	1040	1040	1040	1042	1044
LABOR	CT&E	2)		93.4425-6									
FIELD BATCH	F&B	Drum Storage Area (ST02)	422	422	443	443	443	443	443	443	443	443	443
FIELD	CT&E	Drum Stor		415									
SITE	IDENTIFICATION		ST02	ST02	ST02	ST02	ST02	ST02	ST02	ST02	ST02	ST02	ST02
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-ST02-S01-03	LON-ST02-S02	LON-ST02-S03	LON-ST02-S04	LON-ST02-S05	LON-ST02-S06	LON-ST02-S06DP	LON-ST02-S06S	LON-ST02-S06SD	LON-ST02-S07	LON-ST02-S08
EUFES TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-ST02-S01-03	LON-ST02-S02	LON-ST02-S03	LON-ST02-S04	LON-ST02-S05	LON-ST02-S06	LON-ST02-S06	LON-ST02-S06	LON-ST02-S06	LON-ST02-S07	LON-ST02-S08

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SAMPLE	DESCRIPTION		Soil	Soil	Soil	Surface Water	Surface Water Spike	Surface Water Duplicate	Surface Water Spike Duplicate	Surface Water	Surface Water	Surface Water
LABORATORY BATCH IDENTIFICATION	F&B		#5-09/08/93 #1&2-09/07/93	#5-09/08/93 #1&2-09/07/93	#5-09/08/93 #1&2-09/07/93	#5-08/28/93 #3-08/28/93 #4-08/29/93				#5-08/28/93 #3-08/28/93 #4-08/29/93	#5-08/28/93 #3-08/28/93 #4-08/29/93	#5-08/28/93 #3-08/28/93 #4-08/29/93
LABORA	CT&E					93.4423	93.4423	93,4423	93.4423			
ATORY CATION	F&B		1800	1802	1804	972 978				1062 1064	1068 1070	1072 1074
LABORATORY	CT&E	2)				93.4423-1	93.4423-2	93.4423-3	93.4423-4			
FIELD BATCH DENTIFICATION	F&B	Drum Storage Area (ST02)	482	482	482	431				444	444	444
FIELD	CT&E	Drum Stor				414	414	414	414			
SITE	IDENTIFICATION		ST02	ST02	ST02	ST02	ST02	ST02	ST02	ST02	ST02	ST02
FIELD CHAIN-OF-	VALIDATION SAMPLE IDENTIFICATION		LON-ST02-2S09-1.5	LON-ST02-2S10-1	LON-ST02-2S11-1	LON-ST02-SW01	LON-ST02-SW01S	LON-ST02-SW01DP	LON-ST02-SW01SD	LON-ST02-SW02	LON-ST02-SW03	LON-ST02-SW04
ENTER TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-ST02-2S09-1.5	LON-ST02-2S10-1	LON-ST02-2S11-1	LON-ST02-SW01	LON-ST02-SW01	LON-ST02-SW01	LON-ST02-SW01	LON-ST02-SW02	LON-ST02-SW03	LON-ST02-SW04

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SAMPLE	DESCRIPTION		Surface Water	Surface Water
LABORATORY BATCH IDENTIFICATION	8 8		#5-08/28/93 #3-08/28/93 #4-08/29/93	#5-08/28/93 #3-08/28/93 #4-08/29/93
LABORA	CT&E			
LABORATORY DENTIFICATION	F&B		1077 1078 1080	1082
LABOF	CT&E	)2)		
FIELD BATCH	F&B	Drum Storage Area (ST02)	444	445
FIELD	CT&E	Drum Sto		
SITE	IDENTIFICATION		ST02	ST02
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-ST02-SW05	LON-ST02-SW06
RI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-ST02-SW05	LON-ST02-SW06

CT&E - Commercial Testing and Engineering Co. F&B - Friedman and Bruya, Inc.

E LOAT CINA TYCE CTUC	FIELD CHAIN-OF-	α H	FIELD BATCH	SATCH CATION	LABOR	LABORATORY IDENTIFICATION	LABORA	LABORATORY BATCH IDENTIFICATION	SAMPLE
SAMPLE IDENTIFICATION	VALIDATION SAMPLE IDENTIFICATION	IDENTIFICATION	CT&E	F&B	CT&Ë	F&B	CT&E	F&B	DESCRIPTION
			Beach Dies	Beach Diesel Tanks (SS03)	3)				
LON-SS03-S01	LON-SS03-S01	8803	382	418	93.4357-4	536	93.4357	#5-08/25/93 #1&2-08/25/93	Soil
LON-SS03-S02	LON-SS03-S02	8803		418		538		#5-08/25/93 #1&2-08/25/93	Soil
LON-SS03-S03	LON-SS03-S03	8803		418		540		#5-08/25/93 #1&2-08/25/93	Soil
LON-SS03-S04	LON-SS03-S04	8803		418		542		#5-08/25/93 #1&2-08/25/93	Soil
CON-SS03-S05	LON-SS03-S05	SSO3		418		544		#5-08/25/93 #1&2-08/25/93	Soil
LON-SS03-SD01	LON-SS03-SD01	8803		418		546		#5-08/25/93 #1&2-08/25/93	Sediment
LON-SS03-SD02	LON-SS03-SD02	8803		418		548		#5-08/25/93 #1&2-08/25/93	Sediment
LON-SSO3-SW01	LON-SS03-SW01	8803	382	418	93.4357-7	549	93.4357	#5-08/27/93	Surface Water
LON-SS03-SW02	LON-SS03-SW02	8803		418		550 552 554		#5-08/27/93 #3&4-08/25/93	Surface Water

CT&E - Commercial Testing and Engineering Co. F&B - Friedman and Bruya, Inc.

										T	T			
SAMPLE	DESCRIPTION		Soil	Soil	Soil Spike	Soil Duplicate	Soil Spike Duplicate	Sediment	Sediment	Sediment	Surface Water	Surface Water Spike	Surface Water Duplicate	Surface Water Spike Duplicate
LABORATORY BATCH IDENTIFICATION	F&B		#5-08/25/93 #1&2-08/25/93	#5-08/25/93 #1&2-08/25/93	#5-08/25/93 #1&2-08/25/93	#5-08/25/93 #1&2-08/25/93	#5-08/25/93 #1&2-08/25/93	#5-08/25/93 #1&2-08/25/93	#5-08/25/93 #1&2-08/25/93	#5-09/08/93	#3&4-08/25/93			
LABORA	CT&E		93.4355								93.4355	93.4355	93.4355	93.4355
ATORY CATION	F&B		518	524	524	524	524	520	522	1795	508			
LABORATORY IDENTIFICATION	CT&E		93.4355-6								93.4355-3	93.4355-4	93.4355-5	93.4355-9
FIELD BATCH DENTIFICATION	F&B	POL Storage (SS04)	419	419	419	419	419	419	419	482	419			
FIELD	CT&E	POL Sto	402								402	402	402	402
SITE	IDENTIFICATION		SS04	SS04	SS04	SS04	SS04	SS04						
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-SS04-S01	LON-SS04-S02	LON-SS04-S02S	LON-SS04-S02DP	LON-SS04-S02SD	LON-SS04-SD01	LON-SS04-SD02	LON-SS04-2SD03	LON-SS04-SW01	LON-SS04-SW01S	LON-SS04-SW01DP	LON-SS04-SW01SD
RI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-SS04-S01	LON-SS04-S02	LON-SS04-S02	LON-SS04-S02	LON-SS04-S02	LON-SS04-SD01	LON-SS04-SD02	LON-SS04-2SD03	LON-SS04-SW01	LON-SS04-SW01	LON-SS04-SW01	LON-SS04-SW01

CT&E - Commercial Testing and Engineering Co. F&B - Friedman and Bruya, Inc.

BI/FS TEXT AND TABLE	FIELD CHAIN-OF- CUSTODY AND DATA	SITE	FIELD BATCH IDENTIFICATION	SATION	LABORATORY IDENTIFICATION	ATORY CATION	LABORA	LABORATORY BATCH IDENTIFICATION	SAMPLE
SAMPLE IDENTIFICATION	VALIDATION SAMPLE IDENTIFICATION	IDENTIFICATION	CT&E	F&B	CT&E	F&B	CT&E	F&B	
			Diesel S	Diesel Spill (SS05)					
LON-SS05-S01	LON-SS05-S01	SS05		417		708		#6-08/26/93 #1&2-08/28/93	Soil
LON-SS05-S01	LON-SS05-S01DP	SS05		417		708		#6-08/26/93 #1&2-08/28/93	Soil Duplicate
LON-SS05-S01	LON-SS05-S01S	SS05		417		708		#6-08/26/93 #1&2-08/28/93	Soil Spike
LON-SS05-S01	LON-SS05-S01SD	SS05		417		708		#6-08/26/93 #1&2-08/28/93	Soil Duplicate
LON-SS05-S02-03	LON-SS05-S02-03	3805		417		710		#6-08/26/93 #1&2-08/28/93	Soil
FON-SS05-S03	LON-SS05-S03	SS05		417		714		#6-08/26/93 #1&2-08/28/93	Soil
LON-SS05-S04-03	LON-SS05-S04-03	SS05		417		718		#6-08/26/93 #1&2-08/28/93	Soil
LON-SS05-S04-03	LON-SS05-S04-03DP	SS05		417		718		#6-08/26/93 #1&2-08/28/93	Soil Duplicate
LON-SS05-S04-03	LON-SS05-S04-03S	SS05		417		718		#6-08/26/93 #1&2-08/28/93	Soil Spike
LON-SS05-S04-03	LON-SS05-S04-03SD	SS05		417		718		#6-08/26/93 #1&2-08/28/93	Soill Spike Duplicate
LON-SS05-S05	LON-SS05-S05	SS05		417		720		#6-08/26/93 #1&2-08/28/93	Soi
LON-SS05-S06-01	LON-SS05-S06-01	SS05		417		728		#6-08/26/93 #1&2-08/28/93	Soil
LON-SS05-S07	LON-SS05-S07	SS05		417		722		#6-08/26/93 #1&2-08/28/93	Soil

CT&E - Commercial Testing and Engineering Co. F&B - Friedman and Bruya, Inc.

II.															_		
	SAMPLE	DESCHIPTION		Soil	Soil	Soil	Soil	Soil	Soil	Soil Duplicate	Soil Spike	Soil Spike Duplicate	Soil	Soil	Soil	Soil	Soil
	LABORATORY BATCH IDENTIFICATION	F&B		#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93	#5-09/08/93
	LABOR	CT&E															93.4626
	LABORATORY IDENTIFICATION	F&B		730	760	758	756	754	752	752	752	752	750	748	732	746	1787
	LABOF	CT&E															93.4626-1
	FIELD BATCH IDENTIFICATION	F&B	Diesel Spill (SS05)	417	425	425	425	425	425	425	425	425	425	425	417	425	483
	FIELD	CT&E	Diesel														484
	SITE	DENTIFICATION		SS05	SS05												
And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-SS05-S08-01	LON-SS05-S11	LON-SS05-S12-03	LON-SS05-S13	LON-SS05-S14	LON-SS05-S15-2.5	LON-SS05-S15-2.5DP	LON-SS05-S15-2.5S	LON-SS05-S15-2.5SD	LON-SS05-S16	LON-SS05-S17-3	LON-SS05-S18-2.5	LON-SS05-S19	LON-SS05-2S19-3
	RI/FS TEXT AND TABLE			LON-SS05-S08-01	LON-SS05-S11	LON-SS05-S12-03	LON-SS05-S13	LON-SS05-S14	LON-SS05-S15-2.5	LON-SS05-S15-2.5	LON-SS05-S15-2.5	LON-SS05-S15-2.5	LON-SS05-S16	LON-SS05-S17-3	LON-SS05-S18-2.5	LON-SS05-S19	LON-SS05-2S19-3

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SAMPLE	DESCHIPTION		Surface Water							
LABORATORY BATCH IDENTIFICATION	F&B		#5-08/27/93 #3&4-08/25/93	#5-08/27/93 #3&4-08/25/93	#5-08/27/93 #3&4-08/25/93	#5-08/27/93 #3&4-08/25/93	#5-08/27/93 #3&4-08/25/93	#5-08/27/93 #3&4-08/25/93	#5-08/27/93 #3&4-08/25/93	#5-08/27/93 #3&4-08/25/93
LABORA	CT&E								93.4505	93.4505
LABORATORY	F&B		658 660	999 899	675 678	679 680	762 764 767	772 774	738 739	742 745
LABOR	CT&E								93.4505-1	93.4505-2
FIELD BATCH	F&B	Diesel Spill (SS05)	426	426	426	426	425	425	425	425
FIELD	CT&E	Diesel							379	379
SITE	IDENTIFICATION		SS05	SS05	SS05	SS05	8805	SS05	SS05	SS05
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-SS05-SW01	LON-SS05-SW02	LON-SS05-SW03	LON-SS05-SW04	LON-SS05-SW05	LON-SS05-SW06	LON-SS05-SW07	LON-SS05-SW08
RIVES TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-SS05-SW01	LON-SS05-SW02	LON-SS05-SW03	LON-SS05-SW04	LON-SS05-SW05	LON-SS05-SW06	LON-SS05-SW07	LON-SS05-SW08

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SAMPLE	DESCRIPTION		Soil	Soil	Soil	Soil	Soil	Soil Duplicate	Soil Spike	Soil Spike Duplicate	Soil	Soil Duplicate	Soil Spike	Soil Spike Duplicate
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #6-08/29/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3&4-08/29/93	#6-08/28/93 #4-08/29/93	#6-08/28/93	#6-08/28/93 #3&4-08/31/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93	#6-08/28/93	#6-08/28/93 #3-08/28/93 #4-08/29/93
LABORA	CT&E				93.4425									
ATORY CATION	F&B		392	914	996	896	910	910	910	910	912	912	912	912
LABORATORY	CT&E				93.4425-7									
3ATCH CATION	F&B	Old Dump Site (LF07)	431	421	422	422	421	421	421	421	421	421	421	421
FIELD BATCH IDENTIFICATION	CT&E	Old Dum			415									
SITE	IDENTIFICATION		LF07	LF07	LF07	LF07	LF07	LF07	LF07	LF07	LF07	-	1507	LF07
FIELD CHAIN-OF-	VALIDATION SAMPLE IDENTIFICATION		LON-LF07-S01	LON-LF07-S02	LON-LF07-S03	LON-LF07-S04	LON-LF07-S05	LON-LF07-S05DP	ONLI E07.5058	LON-LF07-S05SD	LON-LF07-S06		LON-LF07-SUBDF	LON-LF07-S06SD
L	RI/FS TEXT AND TABLE SAMPLE IDENTIFICATION		LON-LF07-S01	LON-LF07-S02	LON-LF07-S03	LON-LF07-S04	LON-LF07-S05	LON-LF07-S05		LON-LF07-505	LON-LF07-S06		LON-LF07-S06	LON-LF07-S06

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BIVES TEXT AND TABLE	FIELD CHAIN-OF- CUSTODY AND DATA	SITE	FIELD BATCH IDENTIFICATION	SATCH	LABORATORY IDENTIFICATION	NTORY SATION	LABORA	ABORATORY BATCH IDENTIFICATION	SAMPLE
SAMPLE IDENTIFICATION	VALIDATION SAMPLE IDENTIFICATION	IDENTIFICATION	CT&E	F&B	CT&E	F&B	CT&E	F&B	DESCRIPTION
			MnQ blo	Old Dump Site (LF07)					
LON-LF07-S07	LON-LF07-S07	LF07		431		966		#6-08/28/93 #3-08/28/93 #4-08/29/93	Soil
LON-LF07-S08	LON-LF07-S08	LF07		431		994		#6-08/28/93 #3-08/28/93 #4-08/29/93	Soil
I ON-1 F07-2508	LON-LF07-2S08	LF07		487		1778		#5-09/06/93	Soil
1 ON-LF07-2509	LON-LF07-2S09	LF07		487		1779		#5-09/06/93	Soil
LON-LF07-SW01	LON-LF07-SW01	LF07		445		1088		#5-08/30/93 #182-08/28/93	Surface Water
LON-LF07-SW02	LON-LF07-SW02	LF07	413	431	93.4428-2	988 990	93.4428	#6-08/28/93 #3-08/28/93 #4-08/29/93	Surface Water

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SAMPLE	DESCHIPTION		Soil	Soil Spike	Soil Spike Duplicate	Soil	Sediment	Sediment	Sediment	Surface Water						
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/29/93 #3&4-08/31/93	#6-08/29/93 #3&4-08/31/93	#6-08/29/93 #3&4-08/31/93	#6-08/29/93 #3&4-08/31/93	#6-08/29/93 #3&4-08/31/93	#5-09/06/93 #1&2-08/28/93	#5-09/06/93 #1&2-08/28/93			#5-09/06/93 #1&2-08/28/93	#1&2-08/28/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93		#5-08/30/93 #1&2-08/28/93
LABORA	CT&E					93.4427		93.4626	93.4626	93.4626	93.4626	93.4626	93.4427		93.4427	93.4427
LABORATORY DENTIFICATION	F&B		866	1000	1004	1006	1008	1756	1758			1760	1022	1034		1010 1012
LABOR	CT&E					93.4427-1		93.4626-7	93.4626-8	93.4626-9	93.4626-10	93.4626-11	93.4427-2		93.4427-3	93.4427-4
FIELD BATCH	F&B	Garage (SS09)	442	442	442	442	442	486	486			486	442	443		442
FIELD E	CT&E	Garag				412		484	484	484	484	484	412		412	412
SITE	IDENTIFICATION		60SS	6088	60SS	60SS	8889	6088	8889	6055						
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-SS09-S01	LON-SS09-S02	FON-SS09-S03	CON-SS09-S05	90S-60SS-NOT	LON-SS09-2S04	10N-SS09-2S06	LON-SS09-2S06S	TON-SS09-2S06SD	LON-SS09-2S07	LON-SS09-SD01	LON-SS09-SD02	LON-SS09-SD03	LON-SS09-SW01
BI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-SS09-S01	LON-SS09-S02	FON-S03-NO3	LON-SS09-S05	90S-80SS-NOT	LON-SS09-2S04	LON-SS09-2506	10N-SS09-2S06	10N-SS09-2506	LON-SS09-2S07	LON-SS09-SD01	FON-SS09-SD02	FOOR-SOSE-NOT	LON-SS09-SW01

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RI/ES TEXT AND TABLE	FIELD CHAIN-OF- CUSTODY AND DATA	SITE	FIELD	FIELD BATCH IDENTIFICATION	LABORATORY IDENTIFICATION	ATORY CATION	LABORA	LABORATORY BATCH IDENTIFICATION	SAMPLE
SAMPLE IDENTIFICATION	VALIDATION SAMPLE IDENTIFICATION	IDENTIFICATION	CT&E	F&B	CT&E	F&B	CT&E	F&B	DESCRIPTION
			Garae	Garage (SS09)					
LON-SS09-SW02	LON-SS09-SW02	6088	412	442	93.4427-5	1016 1018	93.4427	#5-08/30/93 #1&2-08/28/93	Surface Water

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SAMPLE	DESCRIPTION		Soil 3	Soil Duplicate	Soil Spike	Soil Spike 3 Duplicate 3	Soil	Soil	Soil Duplicate	Soil Spike	Soil Spike Duplicate	Soil	Sediment 33	Sediment	Sediment
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	£6/90/60-5#	£6/90/60-S#	£6/90/60-5#	#5-09/06/93	#5-09/06/93	£6/90/60-5#	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93
LABORA	CT&E														93.4426
LABORATORY DENTIFICATION	F&B		1050	1050	1050	1050		1772	1772	1772	1772	1771	1030	1767 1024	1773 1028
LABOR	CT&E	(ST10)													93.4426-1
FIELD BATCH	F&B	Diesel Tank (West of Hangar) (ST10)	443	443	443	443	486	487	487	487	487	487	443	442	443
FIELD	CT&E	esel Tank (W										-			441
SITE	IDENTIFICATION	Ϊ́Ο	ST10	ST10	ST10	ST10	ST10	ST10	ST10	ST10	ST10	ST10	ST10	ST10	ST10
FIELD CHAIN-OF-	VALIDATION SAMPLE IDENTIFICATION		LON-ST10-S01	LON-ST10-S01DP	LON-ST10-S01S	LON-ST10-S01SDP	ON ST40.2502	ON ST10.2503	LON ST10-2503	LON-ST10-2503S	LON-ST10-2803SD	LON-ST10-2S04	LON-ST10-SD01	LON-ST10-SD02	LON-ST10-SD03
DIVES TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-ST10-S01	LON-ST10-S01	LON-ST10-S01	LON-ST10-S01	COCC CITO	LON-5110-2502	LON-5110-2503	LON-5110-2503	LON-ST10-2503	1 ON-ST10-2804	LON-ST10-SD01	LON-ST10-SD02	LON-ST10-SD03

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SAMPLE	טבאקרו וייסיי		Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Surface Water	Surface Water
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#5-09/06/93	#5-09/06/93 #1&2-09/07/93	#5-08/30/93 #1&2-08/28/93	#5-08/30/93 #1&2-08/28/93
LABORA	CT&E							93.4626		93.4426
LABORATORY IDENTIFICATION	F&B		1048	1046	1052	1026	1768	1770	1054 1056	1058 1060
LABOR	CT&E	(ST10)						93.4626-12		93.4426-2
FIELD BATCH DENTIFICATION	F&B	Diesel Tank (West of Hangar) (ST10)	443	443	443	442	486	486	444	444
FIELD	CT&E	esel Tank (We						484		441
SITE	IDENTIFICATION		ST10	ST10	ST10	ST10	ST10	ST10	ST10	ST10
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-ST10-SD04	LON-ST10-SD05	LON-ST10-SD06	LON-ST10-SD07	LON-ST10-2SD08	LON-ST10-2SD09	LON-ST10-SW01	LON-ST10-SW02
RI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-ST10-SD04	LON-ST10-SD05	LON-ST10-SD06	LON-ST10-SD07	LON-ST10-2SD08	LON-ST10-2SD09	LON-ST10-SW01	LON-ST10-SW02

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SAMPLE			Soil	Soil Duplicate	Soil Spike	Soil Spike Duplicate	Soil	Soil	Soil	Soil	Sediment	Sediment	Sediment
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93	#6-08/28/93	#6-08/28/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#6-08/28/93 #3-08/28/93 #4-08/29/93
LABORA	CT&E							93.4425					
LABORATORY DENTIFICATION	F&B		946	946	946	946	948	950	952	954	956	958	096
LABOR	CT&E							93.4425-5					
FIELD BATCH IDENTIFICATION	F&B	Inactive Landfill (LF11)	422	422	422	422	422	422	422	422	422	422	422
FIELD	CT&E	Inactive						415					
SITE	IDENTIFICATION		LF11	LF11	LF11	LF11	LF11	LF11	LF11	LF11	LF11	LF11	LF11
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-LF11-S01	LON-LF11-S01DP	LON-LF11-S01S	LON-LF11-S01SD	LON-LF11-S02	LON-LF11-S03	LON-LF11-S04	LON-LF11-S05	LON-LF11-SD01	LON-LF11-SD02	LON-LF11-SD03
RI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-LF11-S01	LON-LF11-S01	1 ON-1 F11-801	LON-LF11-S01	LON-LF11-S02	LON-LF11-S03	LON-LF11-S04	LON-LF11-S05	LON-LF11-SD01	LON-LF11-SD02	LON-LF11-SD03

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	F&B		#6-08/28/93 Surface Water #3-08/28/93 #4-08/29/93	#6-08/28/93 Surface Water #3-08/28/93 #4-08/29/93	#6-08/28/93 Surface Water #3-08/28/93 #4-08/29/93
LABORATORY BATCH IDENTIFICATION	CT&E		93.4428 #6-0	#6-C #3-C	#6-( #3-( #4-
LABORATORY IDENTIFICATION	F&B		892 894	896	902 904
LABOR	CT&E		93.4428-1		
FIELD BATCH	F&B	Inactive Landfill (LF11)	421	421	421
FIELD	CT&E	Inactive	413		
SITE	IDENTIFICATION		LF11	LF11	LF11
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-LF11-SW01	LON-LF11-SW02	LON-LF11-SW03
BI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-LF11-SW01	LON-LF11-SW02	LON-LF11-SW03

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E DIVES TEXT AND TARIF	FIELD CHAIN-OF-	SITE	FIELD BATCH IDENTIFICATION	3ATCH CATION	LABORATORY	ATORY CATION	LABORA	LABORATORY BATCH IDENTIFICATION	SAMPLE
SAMPLE IDENTIFICATION	VALIDATION SAMPLE IDENTIFICATION	IDENTIFICATION	CT&E	F&B	CT&E	F&B	CT&E	F&B	DESCRIPTION
			Module	Module Train (SS12)					
LON-SS12-S01	LON-SS12-S01	SS12		419		502		#5-08/25/93 1&2-08/25/93	Soil
LON-SS12-S02	LON-SS12-S02	SS12		419		506		#5-08/25/93 1&2-08/25/93	Soil
LON-SS12-S03	LON-SS12-S03	SS12	402	419	93.4355-1	504	93.4355	#5-08/25/93 1&2-08/25/93	Soil
000 C130 NO	I ON-SS12-2504	SS12		486		1762		#5-09/06/93	Soil
LON-SS12-SD01	LON-SS12-SD01	SS12		419		516		#5-08/25/93 1&2-08/25/93	Sediment
	00000000000000000000000000000000000000	8812		486		1763		#5-09/06/93	Sediment
LON-SS12-SW01	LON-SS12-SW01	SS12	402	419	93.4355-2	512 514	93.4355	#5-08/27/93 #3&4-08/25/93	Surface Water
LON-SS12-SW02	LON-SS12-SW02	SS12		486		1761		#5-09/06/93	Surface Water

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SAMPLE	DESCRIPTION		Soil	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Surface Water	Surface Water	Surface Water
LABORATORY BATCH IDENTIFICATION	F&B		#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#6-08/29/93 #1&2-08/28/93 #3&4-08/31/93	#5-09/06/93	#5-09/06/93	#5-09/06/93	#5-08/30/93 1&2-08/28/93	#5-08/30/93 1&2-08/28/93	#6-08/29/93 #5-08/30/93 #1&2-08/28/93
LABORA	CT&E			93.4429						93.4429		
LABORATORY	F&B		1106	1104	1108	1102	1764	1765	1766	1110	1114	1118 1120 1020
LABOR	CT&E	()		93.4429-1						93.4429-2		
FIELD BATCH IDENTIFICATION	F&B	Hangar Pad Area (SS13)	446	446	446	446	486	486	486	446	446	446
FIELD	CT&E	Hangar P		440						440		
STE	IDENTIFICATION		SS13	SS13	SS13	SS13	SS13	SS13	SS13	SS13	SS13	SS13
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-SS13-S01	LON-SS13-SD01	LON-SS13-SD02	LON-SS13-SD03	LON-SS13-2SD04	LON-SS13-2SD05	LON-SS13-2SD06	LON-SS13-SW01	LON-SS13-SW02	LON-SS13-SW03
BI/FS TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-SS13-S01	LON-SS13-SD01	LON-SS13-SD02	LON-SS13-SD03	1 ON-SS13-2SD04	LON-SS13-2SD05	LON-SS13-2SD06	LON-SS13-SW01	LON-SS13-SW02	LON-SS13-SW03

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SAMPLE	DESCRIPTION		Soil	Sediment	Sediment Spike	Sediment Duplicate	Sediment Duplicate Spike	Sediment	Soil	Surface Water	Surface Water Spike	Surface Water Duplicate	Surface Water	Surface Water
ABORATORY BATCH IDENTIFICATION	F&B		#6-08/26/93 #1&2-08/28/93	#6-08/26/93 #1&2-08/28/93				#6-08/26/93 #1&2-08/28/93	#5-09/06/93	#5-08/27/93 #3&4-08/25/93			#5-08/27/93 #3&4-08/25/93	#5-08/27/93 #3&4-08/25/93
LABORA	CT&E		93.4506	93.4504	93.4504	93.4504	93.4504	93.4506		93.4504	93.4504	93.4504	93.4506	93.4504
LABORATORY DENTIFICATION	F&B		669	734				700	1771	706 707			666 672	688 690
LABORATORY	CT&E		93.4506-3	93.4504-6	93.4504-7	93.4504-8	93.4504-9	93.4506-4		93.4504-1	93.4504-3	93.4504-2	93.4506-2	93.4504-5
FIELD BATCH	F&B	Background (BKGD)	416	417				416	487	416			426	416
FIELD	CT&E	Backgro	380	381	381	381	381	380		381	381	381	380	381
SITE	IDENTIFICATION		BKGD	вкер	BKGD	BKGD	вкар	BKGD	BKGD	ВКС	вкар	вкер	вкер	вкар
FIELD CHAIN-OF-	VALIDATION SAMPLE IDENTIFICATION		LON-BKGD-S01	LON-BKGD-SD01	I ON-BKGD-SD01S	LON-BKGD-SD01DP	LON-BKGD-SD01SD	LON-BKGD-SD02	LON-BKGD-2SD03	LON-BKGD-SW01	LON-BKGD-SW01S	LON-BKGD-SW01DP	LON-BKGD-SW02	LON-BKGD-SW03
E I DAT ON TABLE	SAMPLE IDENTIFICATION		LON-BKGD-S01	LON-BKGD-SD01	ייחס הסאם ואס ו	LON-BKGD-SD01	LON-BKGD-SD01	LON-BKGD-SD02	I ON BKGD 29D03	LON-BKGD-SW01	LON-BKGD-SW01	LON-BKGD-SW01	LON-BKGD-SW02	LON-BKGD-SW03

CT&E - Commercial Testing and Engineering Co. F&B - Friedman and Bruya, Inc.

SAMPLE	DESCRIPTION		Ambient Blank	Ambient Blank	Equipment Blank	Equipment Blank Spike	Equipment Blank Duplicate	Equipment Blank Spike Duplicate	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank Spike	Equipment Blank Spike Duplicate	Trip Blank
LABORATORY BATCH IDENTIFICATION	F&B		#3-08/28/93 #4-08/29/93	#182-08/28/93	#5-08/27/93 #3&4-08/25/93				#5-08/27/93 #3&4-08/25/93	#6-08/28/93 #3-08/28/93 #4-08/29/93	#5-08/30/93 #1&2-08/28/93	#6-09/09/93 #1&2-09/07/93	#6-09/09/93 #1&2-09/07/93			#3&4-08/25/93
LABORA	CT&E				93.4357	93.4357	93.4357	93.4357	93.4506	93.4425	93.4426	93.4626	93.4626	93.4626	93.4626	93.4357
LABORATORY IDENTIFICATION	F&B		906	1094	530 534				694 696	942 944	1098 1100	1796 1798	1774			528
LABOR	CT&E				93.4357-1	93.4357-2	93.4357-3	93.4357-0	93.4506-1	93.4425-9	93.4426-4	93.4626-6	93.4626-13	93.4626-13	93.4626-13	93.4357-8
FIELD BATCH	F&B	QA/QC	421	445	418				416	420	445	482	487			419
FIELD	CT&E				382	382	382	382	380	415	441	484	484	484	484	382
SITE	IDENTIFICATION		AB	AB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	TB
FIELD CHAIN-OF- CUSTODY AND DATA	VALIDATION SAMPLE IDENTIFICATION		LON-AB01	LON-AB02	LON-EB01	LON-EB01S	LON-EB01DP	LON-EB01SD	LON-EB02	LON-EB03	LON-EB04	LON-EB05	LON-EB08	LON-EB08S	LON-EB08SD	LON-TB01
RIVES TEXT AND TABLE	SAMPLE IDENTIFICATION		LON-AB01	LON-AB02	LON-EB01	LON-EB01	LON-EB01	LON-EB01	LON-EB02	LON-EB03	LON-EB04	LON-EB05	LON-EB08	LON-EB08	LON-EB08	LON-TB01

CT&E - Commercial Testing and Engineering Co. F&B - Friedman and Bruya, Inc.

	SAMPLE	DESCRIPTION		Trip Blank	Trip Blank	Trip Blank	Waste Sample	Waste Sample Spike	Waste Sample Duplicate	Waste Sample Spike Duplicate	Trip Blank
		F&B		#3&4-08/25/93 Trip	#3-08/28/93 Trip #4-08/29/93	#1&2-08/28/93 Trip	#6-09/09/93 Was	Was	Was	Wa: Spil	#3&4-08/25/93 Trip
	LABORATORY BATCH IDENTIFICATION	CT&E		93.4505 #3	93.4425 #	93.4426 #1	93.4696 #	93.4696	93,4696	93.4696	£#
	TORY SATION	F&B		684	916	1092	1906				526
	LABORATORY	CT&E		93.4505-3	93.4425-8	93.4426-3	93.4696-2	93.4696-3	93.4696-4	93.4696-5	
	FIELD BATCH	F&B	QA/QC	426	421	445	588				419
	FIELD	CT&E		379	415	441	589	589	589	589	
	SITE		TB	TB	TB	×	M	M	M	GAB	
	FIELD CHAIN-OF-	VALIDATION SAMPLE IDENTIFICATION		- ON TB02	LON-TB03	ON-TB04	ONIWO	LON-W01S	LON-W01DP	LON-W01SD	I ON GAB.TB
	BVES TEXT AND TABLE	SAMPLE IDENTIFICATION		COURT INC.	LON-TB03	20d F MO	FOR HOS	LON-W01	LON-W01	LON-W01	a H G V O A C

CT&E - Commercial Testing and Engineering Co. Friedman and Bruya, Inc.

3. ANALYTICAL DATA

ANALYTICAL DATA SHEETS FOR THE SEWAGE DISPOSAL AREA (SS01)



REPORT of ANALYSIS

ENVIRONMENTAL LABORATORY SERVICES

hemlab Ref.#

:93.4425-1

Client Sample ID :LON-SS01-S04 Matrix

:SOIL

5633 B STREET ANCHORAGE, AK 99518

TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name

:RAY MORRIS :DEW LINE

Project# PWSID

: LONELY :UA

Received

WORK Order

:70211

Report Completed :10/27/93 Collected

:08/26/93 @ 10:30 hrs :08/29/93 @ 12:45 hrs

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

	Parameter	Results	QC Qua	l Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics								
	Benzene	0.200	U	ma /1/a	EPA 8260				
	Bromobenzene	0.200	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	Bromochloromethane	0.200	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
	Bromodichloromethane	0.200	IJ	mg/Kg	EPA 8260		08/30	09/13	KWM
	Bromoform	0.200	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	Bromomethane	0.200	IJ	mg/Kg	EPA 8260		08/30	09/13	KWM
	n-Butylbenzene	0.200	Ü	mg∕Kg	EPA 8260			09/13	KWM
	sec-Butylbenzene	0.287	-	mg/Kg	EPA 8260			09/13	KWM
	tert-Butylbenzne	0.200	D	mg/Kg	EPA 8260			09/13	KWM
	Carbon Tetrachloride	0.200	U	mg/Kg	EPA 8260		08/30		KWM
	Chlorobenzene		U	mg/Kg	EPA 8260		08/30	09/13	KWM
4	Chloroethane	0.200 0.200	U	mg/Kg	EPA 8260		08/30		KWM
	Chloroform		Ü	mg/Kg	EPA 8260		08/30		KWM
	Chloromethane	0.200 0.200	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	2-Chlorotoluene		Ū	mg/Kg	EPA 8260		08/30		KWM
	4-Chlorotoluene	0.200	U	mg/Kg	EPA 8260		08/30		KWM
	Dibromochloromethane	0.200	Ü	mg/Kg	EPA 8260		08/30		KWM
	12Dibromo3Chloropropane	0.200	Ü	mg/Kg	EPA 8260		08/30		KWH
	1,2-Dibromoethane	0.200	Ü	mg/Kg	EPA 8260		08/30		KWM
	Dibromomethane	0.200	U	mg/Kg	EPA 8260		08/30		KWM
	1,2-Dichlorobenzene	0.200 0.200	U	mg/Kg	EPA 8260		08/30		KWM
	1,3-Dichlorobenzene	0.200	U	mg/Kg	EPA 8260		08/30		KWM
	1,4-Dichlorobenzene	0.200	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	Dichlorodifluoromethane	0.200	U	mg/Kg	EPA 8260 .		08/30		KWM
	1,1-Dichloroethane	0.200	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	1,2-Dichloroethane	0.200	U U	mg/Kg	EPA 8260		08/30	09/13	KWM
	1,1-Dichloroethene	0.200	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
	cis-1,2-Dichloroethene	0.200	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	trans1,2-Dichloroethene	0.200	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
	1,2-Dichloropropane	0.200	U	mg/Kg	EPA 8260		08/30		KWM
	1,3-Dichloropropane	0.200	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
	2,2-Dichloropropane	0.200	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
	1,1-Dichloropropene	0.200	Ū	mg/Kg	EPA 8260		08/30	09/13	KWM
	Ethylbenzene	0.200	U	mg/Kg	EPA 8260	•	08/30	09/13	KWM
	Hexachlorobutadiene	0.200	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
	Isopropylbenzene	0.200	Ü	mg/Kg	EPA 8260		08/30		KWM
	p-Isopropyltoluene	1.12	D D	mg/Kg	EPA 8260		08/30		KWM
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.12	ט	mg/Kg	EPA 8260		08/30	09/13	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4425-1 Client Sample ID :LON-SS01-S04

Matrix :SOIL

5633 B S ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

						(200)	. 5001
Methylene Chloride Napthalene n-Propylbenzene Styrene 1112-Tetrachloroethane 1122-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride p+m-Xylene 0-Xylene  Semivolatile Organics Phenol	0.200 2.29 0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200 0.200	מסממסמממממממממממממממממממממממממממממממ	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8270 EPA 8270	08/30 08/30 08/30 08/30 08/30 08/30 08/30 08/30 08/30 08/30 08/30 08/30 08/30	09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13 09/13	KWH KWH KWH KWH KWH KWH KWH KWH KWH KWH
<pre>bis(2-Chloroethyl)ether 2-Chlorophenol</pre>	0.230	Ü U	mg/Kg mg/Kg	EPA 8270 EPA 8270	09/09	10/03	
1,3-Dichlorobenzene	0.230	Ŭ	mg/Kg	EPA 8270		10/03	MIT
1,4-Dichlorobenzene	0.230	Ŭ	mg/Kg	EPA 8270		10/03	MTT
Benzyl Alcohol	1.50	Ü	mg/Kg	EPA 8270		10/03	MTT
1,2-Dichlorobenzene	0.230	U	mg/Kg	EPA 8270		10/03	MTT
2-Methylphenol	0.230	U	mg/Kg	EPA 8270		10/03	MTT
bis(2-Chloroisopropyl)e	0.230	U	mg/Kg	EPA 8270		10/03	MTT
4-Methylphenol	0.230	U	mg/Kg	EPA 8270		10/03	MTT
n-Nitroso-di-n-Propylam Hexachloroethane	0.230	U	mg/Kg	EPA 8270		10/03	MTT
Nitrobenzene	0.230 0.230	U U	mg/Kg	EPA 8270		10/03	MTT
Isophorone	0.230	บ	mg/Kg mg/Kg	EPA 8270 EPA 8270		10/03 10/03	MTT MTT
2-Nitrophenol	0.230	Ü	mg/Kg	EPA 8270 .		10/03	MTT
2,4-Dimethylphenol	0.230	U	mg/Kg	EPA 8270		10/03	MTT
Benzoic Acid	0.230	U	<b>mg∕K</b> g	EPA 8270	09/09	10/03	MTT
bis(2-Chloroethoxy)Meth 2,4-Dichlorophenol	0.230	U	mg/Kg	EPA 8270	09/09	10/03	MTT
1,2,4-Trichlorobenzene	0.230 0.230	U U	mg/Kg	ETPA 8270		10/03	MTT
Naphthalene	0.485	U	mg/Kg mg/Kg	EPA 8270 EPA 8270		10/03 10/03	MTT MTT
4-Chloroaniline	0.230	U	mg/Kg	EPA 8270		10/03	MTT
Hexachlorobutadiene	0.230	U	mg/Kg	EPA 8270		10/03	MTT
4-Chloro-3-Methylphenol	0.230	U	mg/Kg	EPA 8270		10/03	MTT
2-Methylnaphthalene Hexachlorocyclopentadie	1.63		<b>mg</b> /Kg	EPA 8270		10/03	MTT
2,4,6-Trichlorophenol	0.230 0.230	U U	mg/Kg	EPA 8270		10/03	MTT
2,4,5-Trichlorophenol	0.230	Ŭ	mg/Kg mg/Kg	EPA 8270 EPA 8270		10/03 10/03	MTT MTT
2-Chloronaphthalene	0.230	Ü	m∙g/Kg	EPA 8270		10/03	MTT
			<u> </u>		52, 02	2-, 00	
							1



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4425-1 Client Sample ID :LON-SS01-S04

Matrix :SOTE REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

Hacrix :SUIL				FAX: (907) 561-5301
2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenyl-Phenylet Fluorene 4-Nitroaniline 4,6-Dinitro-2-Methylphe n-Nitrosodiphenylamine 4-Bromophenyl-Phenyleth Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene di-n-Butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)Anthracene Chrysene bis(2-Ethylhexyl)Phthal di-n-Octylphthalate Benzo(b)Fluoranthene Benzo(a)Pyrene Indeno(1,2,3-cd)Pyrene Dibenz(a,h)Anthracene Benzo(g,h,i)Perylene	0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U 0.230 U	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270	09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT 09/09 10/03 MT

See Special Instructions Above

See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



**SGS** Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.#

:93.4425-4

Matrix

Client Sample ID :LON-SS01-S15

:SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS :DEW LINE

Project# PWSID

:UA

:LONELY

WORK Order

Collected

:70211

Report Completed :10/27/93

:08/26/93 @ 12:10 hrs. :08/29/93 @ 12:45 hrs.

Received

Technical Director: STEPHEN C. EDE

Released By :

Homestean

Qualities Comment

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

Parameter   Results Qual Units   Method   Limits   Date   Date   Init					7/17	ayer / sm	w5		
Volatile Organics         EPA 8260           Benzene         0.400 U mg/Kg         EPA 8260(J) A I         08/30 09/14 KWR           Bromobenzene         0.400 U mg/Kg         EPA 826C         08/30 09/14 KWR           Bromochloromethane         0.400 U mg/Kg         EPA 8260         08/30 09/14 KWR           Bromodichloromethane         0.400 U mg/Kg         EPA 8260         08/30 09/14 KWR           Bromoform         0.400 U mg/Kg         EPA 8260         08/30 09/14 KWR           Bromomethane         0.400 U mg/Kg         EPA 8260         08/30 09/14 KWR           n-Butylbenzene         3.51 D mg/Kg         EPA 8260         08/30 09/14 KWR						Milowable	EXt.		
Benzene       0.400 U mg/Kg       EPA 8260(T) A I       08/30 09/14 KWR         Bromobenzene       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromochloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromodichloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromoform       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromomethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         n-Butylbenzene       3.51 D mg/Kg       EPA 8260       08/30 09/14 KWR	Parameter	Results	Qual	Units	Method	Limits	Date	Date	Init
Benzene       0.400 U mg/Kg       EPA 8260(T) A I       08/30 09/14 KWR         Bromobenzene       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromochloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromodichloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromoform       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromomethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         n-Butylbenzene       3.51 D mg/Kg       EPA 8260       08/30 09/14 KWR	Volatile Organics				EPA 8260				
Bromobenzene       0.400 U mg/Kg       EPA 826C       08/30 09/14 KWR         Bromochloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromodichloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromoform       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromomethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         n-Butylbenzene       3.51 D mg/Kg       EPA 8260       08/30 09/14 KWR		0.400	U	ma/Ka		). A i	08/30	09/14	KWH
Bromochloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromodichloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromoform       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         Bromomethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWR         n-Butylbenzene       3.51 D mg/Kg       EPA 8260       08/30 09/14 KWR	Bromobenzene	0.400	บ			7 71 . •	08/30	09/14	KWM
Bromodichloromethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWM         Bromoform       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWM         Bromomethane       0.400 U mg/Kg       EPA 8260       08/30 09/14 KWM         n-Butylbenzene       3.51 D mg/Kg       EPA 8260       08/30 09/14 KWM	Bromochloromethane	0.400	U				08/30	09/14	KWM
Bromomethane         0.400 U mg/Kg         EPA 8260         08/30 09/14 KWN           n-Butylbenzene         3.51 D mg/Kg         EPA 8260         08/30 09/14 KWN	Bromodichloromethane	0.400	U				08/30	09/14	KWM
n-Butylbenzene 3.51 D mg/Kg EPA 8260 08/30 09/14 KWN	Bromoform	0.400	บ				08/30	09/14	KWH
n-Butylbenzene 3.51 D mg/Kg EPA 8260 08/30 09/14 KWN	Bromomethane	0.400	U		EPA 8260		08/30	09/14	KWM
	n-Butylbenzene	3.51	D		EPA 8260		08/30	09/14	KWM
	sec-Butylbenzene	0.490	D	mg/Kg	EPA 8260		08/30	09/14	
tert-Butylbenzne 0.400 U mg/Kg EPA 8260 08/30 09/14	tert-Butylbenzne	0.400	U	mg/Kg	EPA 8260		08/30	09/14	
Carbon Tetrachloride 0.400 U mg/Kg EPA 8260 08/30 09/14 KW	Carbon Tetrachloride	0.400	U	mg/Kg	EPA 8260		08/30	09/14	KWM
	Chlorobenzene			mg/Kg	EPA 8260		08/30	09/14	KWN
Chloroethane 0.400 U mg/Kg EPA 8260 08/30 09/14 KW	Chloroethane	0.400	U	mg/Kg	EPA 8260		08/30	09/14	KWM
Chloroform 0.400 U mg/Kg EPA 8260 08/30 09/14 KW	Chloroform	0.400	U	mg/Kg	EPA 8260		08/30	09/14	KWH
Chloromethane 0.400 U mg/Kg EPA 8260 08/30 09/14 KW	Chloromethane	0.400	U	mg/Kg	EPA 8260		08/30	09/14	KWM
2-Chlorotoluene 0.400 U mg/Kg EPA 8260 08/30 09/14 KWM	2-Chlorotoluene	0.400	U	mg/Kg	EPA 8260		08/30	09/14	KWM
4-Chlorotoluene 0.400 U mg/Kg EPA 8260 08/30 09/14 KWM	4-Chlorotoluene	0.400	บ	mg/Kg	EPA 8260		08/30	09/14	KWM
		0.400	U	mg/Kg	EPA 8260		08/30	09/14	KWM
	12Dibromo3Chloropropane			mg/Kg	EPA 8260				KWM
	1,2-Dibromoethane			mg/Kg	EPA 8260		08/30	09/14	KWM
		0.400	บ	mg/Kg	EPA 8260		08/30	09/14	KWM
1,2-Dichlorobenzene 0.400 U mg/Kg EPA 8260 08/30 09/14 KWI	1,2-Dichlorobenzene	0.400	ប	mg/Kg	EPA 8260		08/30	09/14	KWM
1,3-Dichlorobenzene 0.400 U mg/Kg EPA 8260 08/30 09/14 KW	1,3-Dichlorobenzene	0.400	U	mg/Kg	EPA 8260		08/30	09/14	KWM
	1,4-Dichlorobenzene	0.400	U	mg/Kg	EPA 8260				KWM
				mg/Kg	EPA 8260				KWM
		0.400	บ	mg/Kg	EPA 8260				KWM
		0.400	ប	mg/Kg					KWM
									KWM
						( 			KWM
•									KWM
									KWM
									KWM
						:			KWM
	1.1-Dichloropropene								KWM
						,			KWM
									KWM
100F10F12DC::20:00 0 ::3/1/3						A			MAN
p-Isopropyltoluene 0.931 D mg/Kg EPA 8260 A 08/30 09/14	p-Isopropyltoluene	0.931	D	mg/Kg	EPA 8260 -	4	08/30	09/14	





#### COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

5 NCE 1908		REPO	ORT of AN	ALYSTS		<del>-</del>
Chemlab Ref.# :93.4425-4					5633 B ST	REET
Client Sample ID :LON-SS01-S15				O(1)	ANCHORAGE, AK	9518
Matrix :SOIL				(il) allile: / Como	TEL: (907) 562 FAX: (907) 561	-2343 -5301
				- V /		-3301
Methylene Chloride	0.400	U	mg/Kg	EPA 826( (C) -A 1	08/30 09/14	KWH
Napthalene	6.80	D	mg/Kg	EPA 8260	08/30 09/14	
n-Propylbenzene	0.400	ŭ	mg/Kg	EPA 8260	08/30 09/14	KWM
Styrene	0.400	บ	mg/Kg	EPA 8260		KMM
1112-Tetrachloroethane	0.400	บ		EPA 8260	08/30 09/14	KWH
1122-Tetrachloroethane	0.400	บ	mg/Kg		08/30 09/14	KWM
Tetrachloroethene	0.400	บ	mg/Kg	EPA 8260	08/30 09/14	KWM
Toluene	0.400	บ	mg/Kg	EPA 8260	08/30 09/14	KWM
1,2,3-Trichlorobenzene	0.400	บ	mg/Kg	EPA 8260	08/30 09/14	KWM
1,2,4-Trichlorobenzene	0.400	บ	mg/Kg	EPA 8260	08/30 09/14	KWM
1,1,1-Trichloroethane		_	mg/Kg	EPA 8260	08/30 09/14	KWM
1,1,2-Trichloroethane	0.400	U	mg/Kg	EPA 8260	08/30 09/14	KWM
Trichloroethene	0.400	U	mg/Kg	EPA 8260	08/30 09/14	KWH
Trichlorofluoromethane	0.400	Ü	mg/Kg	EPA 8260	08/30 09/14	KWM
1,2,3-Trichloropropane	0.400	Ü	mg/Kg	EPA 8260	08/30 09/14	KWH
	0.400	บ	mg/Kg	EPA 8260	08/30 09/14	KWM
1,2,4-Trimethylbenzene	7.82	D	mg/Kg	EPA 8260	08/30 09/14	KWM
1,3,5-Trimethylbenzene	6.89	D	mg/Kg	EPA 8260	08/30 09/14	KWM
Vinyl Chloride	0.400	Ū	mg∕Kg	EPA 8260	08/30 09/14	KWM
p+m-Xylene	2.55	D	mg/Kg	EPA 8260	08/30 09/14	KWM
o-Xylene	2.02	D	mg/Kg	EPA 8260 🛷	08/30 09/14	KWM
Comius Intile Committee						
emivolatile Organics	2 22			EPA 8270		
	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
his(2-Chloroethyl)ether 2-Chlorophenol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HTT
	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HTT
1,3-Dichlorobenzene	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HIT
1,4-Dichlorobenzene	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HII
Benzyl Alcohol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
1,2-Dichlorobenzene	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HTT
2-Methylphenol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HIT
bis(2-Chloroisopropyl)e	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
4-Methylphenol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
n-Nitroso-di-n-Propylam Hexachloroethane	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT-
Nitrobenzene	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
Isophorone	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HTT
<b>—</b> ••••	3.20	Ü	mg/Kg	EPA 8270	09/09 10/03	HTT
2-Nitrophenol 2,4-Dimethylphenol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
Benzoic Acid	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HTT
bis(2-Chloroethoxy)Meth	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MTT
2,4-Dichlorophenol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
1,2,4-Trichlorobenzene	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HTT
Naphthalene	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
4-Chloroaniline	3.45	**	mg/Kg	EPA 8270	09/09 10/03	HTT
Hexachlorobutadiene	3.20	Ü	mg/Kg	EPA 8270	09/09 10/03	MTT
4-Chloro-3-Methylphenol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HIT
2-Methylnaphthalene	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HIT
Hexachlorocyclopentadie	6.82	**	mg/Kg	EPA 8270	09/09 10/03	HTT
2,4,6-Trichlorophenol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MTT
2,4,5-Trichlorophenol	3.20	U	mg/Kg	EPA 8270	09/09 10/03	MIT
-Chloronaphthalene	3.20	บ บ	mg/Kg	EPA 8270	09/09 10/03	HTT
our or on abutiful telle	3.20	U	mg/Kg	EPA 8270	09/09 10/03	HTT
				ab will		
				as July		



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4425-4 Client Sample ID :LON-SS01-S15

Matrix :SOIL ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenyl-Phenylet Fluorene 4-Nitroaniline 4,6-Dinitro-2-Methylphe n-Nitrosodiphenylamine 4-Bromophenyl-Phenyleth Hexachlorophenol Phenanthrene Anthracene di-n-Butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)Anthracene Chrysene bis(2-Ethylhexyl)Phthal	3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20	ווטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270	09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09 09/09	10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03 10/03	MIT MIT MIT MIT MIT MIT MIT MIT MIT MIT
3,3-Dichlorobenzidine	3.20	U	mg/Kg	EPA 8270	09/09	10/03	
Chrysene bis(2-Ethylhexyl)Phthal	3.20 3.20	U U				10/03	
di-n-Octylphthalate Benzo(b)Fluoranthene Benzo(k)Fluoranthene	3.20	U U	mg/Kg mg/Kg	EPA 8270 EPA 8270	09/09 09/09	10/03 10/03	MTT
Benzo(k)Fluoranthene Benzo(a)Pyrene Indono(1, 2, 2, ad)Pyrene	3.20	U U	mg/Kg mg/Kg	EPA 8270 EPA 8270	09/09 09/09	10/03	MTT MTT
<pre>Indeno(1,2,3-cd)Pyrene Dibenz(a,h)Anthracene Benzo(g,h,i)Perylene</pre>	3.20 3.20 3.20	U U U	mg/Kg mg/Kg mg/Kg	EPA 8270 EPA 8270 EPA 8270	09/09 09/09 09/09	10/03 10/03	MTT MTT MTT

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



**SES** Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

hemlab Ref.# :93.4425-2 Client Sample ID :LON-SS01-SD01

Matrix

:SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

WORK Order :70211

Report Completed :10/27/93 Collected :08/26/93

0 10:30 hrs Received :08/29/93 @ 12:45 hrs

Technical Director: STEPHEN C. EDE

Released By : Horresteac

Client Name Ordered By Project Name

Project#

PWSID

:RAY MORRIS :DEW LINE : LONELY

:ICF KAISER ENGINEERING

:UA

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics								
Benzene	0.350	U	ma /Va	EPA 8260				
Bromobenzene	0.350	Ü	mg/Kg	EPA 8260			09/13	KWM
Bromochloromethane	0.350	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
Bromodichloromethane	0.350	U	mg/Kg	EPA 8260		08/30		KWM
Bromoform	0.350	Ü	mg/Kg	EPA 8260			09/13	KWM
Bromomethane	0.350	-	mg/Kg	EPA 8260		08/30	09/13	KWM
n-Butylbenzene	0.350	U U	mg/Kg	EPA 8260		08/30	09/13	KWM
sec-Butylbenzene	0.350	U	mg/Kg	EPA 8260 (		08/30	09/13	KWM
tert-Butylbenzne	0.350	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
Carbon Tetrachloride	0.350	IJ	mg/Kg	EPA 8260		08/30	09/13	KWM
Chlorobenzene	0.350	-	mg/Kg	EPA 8260		08/30		KWM
 Chloroethane		U	mg/Kg	EPA 8260		08/30	09/13	KWM
Chloroform	0.350	U	mg/Kg	EPA 8260		08/30		KWM
Chloromethane	0.350	U	mg/Kg	EPA 8260		08/30		KWM
2-Chlorotoluene	0.350	U	mg/Kg	EPA 8260		08/30		KWM
4-Chlorotoluene	0.350 0.350	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Dibromochloromethane	0.350	U	mg/Kg	EPA 8260		08/30	09/13	KWM
12Dibromo3Chloropropane	0.350	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
1,2-Dibromoethane	0.350	U	mg/Kg	EPA 8260		08/30		KWM
Dibromomethane	0.350	U	mg∕Kg	EPA 8260		08/30	09/13	KWM
1,2-Dichlorobenzene	0.350	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,3-Dichlorobenzene	0.350	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,4-Dichlorobenzene	0.350	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Dichlorodifluoromethane	0.350	U	mg/Kg	EPA 8260 .		08/30	09/13	KWM
1,1-Dichloroethane	0.350	•	mg/Kg	EPA 8260		08/30	09/13	KWM
1,2-Dichloroethane	0.350	บ บ	mg/Kg	EPA 8260		08/30		KWM
1,1-Dichloroethene	0.350	Ü	mg/Kg	EPA 8260		08/30		KWM
cis-1,2-Dichloroethene	0.350	U	mg/Kg	EPA 8260		08/30		KWM
trans1,2-Dichloroethene	0.350	U	mg/Kg	EPA 8260		08/30		KWM
1,2-Dichloropropane	0.350	U	mg/Kg	EPA 8260		08/30		KWM
1,3-Dichloropropane	0.350	U	mg/Kg	EPA 8260		08/30		KWM
2,2-Dichloropropane	0.350	_	mg/Kg	EPA 8260		08/30		KWM
1,1-Dichloropropene	0.350	U	mg/Kg	EPA 8260		08/30		KWM
Ethylbenzene	0.350	Ü	mg/Kg	EPA 8260	, <b>k</b> ,	08/30		KWM
Hexachlorobutadiene	0.350	Ŭ	mg/Kg	EPA 8260		08/30		KWM
Isopropylbenzene	0.350	IJ	mg/Kg	EPA 8260		08/30		KWM
p-Isopropyltoluene	0.350	_	mg/Kg	EPA 8260		08/30		KWM
	0.550	U	mg/Kg	EPA 8260		08/30	09/13	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4425-2 5633 B ST ANCHORAGE, AK 99518 Client Sample ID :LON-SS01-SD01 TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 561-5301 Methylene Chloride 0.350 U mg/Kg EPA 8260 08/30 09/13 KWY. Napthalene 0.350 U mq/Kq EPA 8260 08/30 09/13 KWM n-Propylbenzene 0.350 U mq/Kq EPA 8260 08/30 09/13 KWM Styrene 0.350 U mg/Kg EPA 8260 08/30 09/13 KWH 1112-Tetrachloroethane 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM 1122-Tetrachloroethane 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM Tetrachloroethene 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM Toluene 0.350 U mq/Kq EPA 8260 08/30 09/13 KWM 1,2,3-Trichlorobenzene 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM 1,2,4-Trichlorobenzene 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM 1,1,1-Trichloroethane 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM 1,1,2-Trichloroethane 0.350 U mg/Ka EPA 8260 08/30 09/13 KWM Trichloroethene 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM Trichlorofluoromethane 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM 1,2,3-Trichloropropane 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM 1,2,4-Trimethylbenzene 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM 1,3,5-Trimethylbenzene 0.779 D mg/Kg EPA 8260 08/30 09/13 KWM Vinyl Chloride 0.350 U mg/Kg EPA 8260 08/30 09/13 KWH p+m-Xylene 0.350 U mg/Kg EPA 8260 08/30 09/13 KWM o-Xylene 0.350 11 mg/Kq EPA 8260 08/30 09/13 KWM Semivolatile Organics EPA 8270 Phenol 2.90 U mq/Kq EPA 8270 09/09 10/03 bis(2-Chloroethyl)ether 2.90 U mg/Kg EPA 8270 09/09 10/03 2-Chlorophenol 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT 1,3-Dichlorobenzene 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT 1,4-Dichlorobenzene 2.90 U mq/Kq EPA 8270 09/09 10/03 MTT Benzyl Alcohol 2.90 U mg/Kg **EPA** 8270 09/09 10/03 MTT 1,2-Dichlorobenzene 2.90 U mg/Kg EPA 8270 09/09 10/03 MIT 2-Methylphenol 2.90 IJ mg/Kg **EPA** 8270 09/09 10/03 MTT bis(2-Chloroisopropyl)e 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT 4-Methylphenol 2.90 IJ mg/Kg **EPA** 8270 09/09 10/03 TTM n-Nitroso-di-n-Propylam 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT Hexachloroethane 2.90 U mg/Ka EPA 8270 09/09 10/03 MTT Nitrobenzene 2.90 U mq/Ka **EPA** 8270 09/09 10/03 MTT Isophorone 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT 2-Nitrophenol 2.90 mg/Kg U **EPA** 8270 09/09 10/03 MTT 2,4-Dimethylphenol 2.90 U mg/Kq EPA 8270 09/09 10/03 MTT Benzoic Acid 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT bis(2-Chloroethoxy)Meth 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT 2,4-Dichlorophenol 2.90 U mq/Kq EPA 8270 09/09 10/03 MTT 1,2,4-Trichlorobenzene 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT Naphthalene 2.90 U mg/Ka EPA 8270 09/09 10/03 MTT 4-Chloroaniline 2.90 U ma/Ka EPA 8270 09/09 10/03 MTT Hexachlorobutadiene 2.90 U mq/Kq **EPA** 8270 09/09 10/03 MTT 4-Chloro-3-Methylphenol 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT 2-Methylnaphthalene 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT Hexachlorocyclopentadie 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT 2,4,6-Trichlorophenol 2.90 U mg/Kg EPA 8270 09/09 10/03 MTT 2,4,5-Trichlorophenol 2.90 U mg/Kq EPA 8270 09/09 10/03 MTT 2-Chloronaphthalene 2.90 mg/Kg EPA 8270



09/09 10/03



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.#

:93.4425-2

Client Sample ID :LON-SS01-SD01

Matrix

:SOIL

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 9951E TEL: (907) 562-2343 FAX: (907) 561-5301

2-Nitroaniline	2.90 U	mg/Kg	EPA 8270	00/00 10/03	
Dimethylphthalate	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MT
Acenaphthylene	2.90 บ	mg/Kg	EPA 8270	09/09 10/03	MT
2,6-Dinitrotoluene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MT
3-Nitroaniline	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MT
Acenaphthene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MT
2,4-Dinitrophenol	2.90 U	mg/Kg		09/09 10/03	MT
4-Nitrophenol	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MT
Dibenzofuran	2.90 U	_	EPA 8270	09/09 10/03	MT
2,4-Dinitrotoluene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MT
Diethylphthalate	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MT
4-Chlorophenyl-Phenylet	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MT
Fluorene		mg/Kg	EPA 8270	09/09 10/03	MTT
4-Nitroaniline	2.90 U 2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
4,6-Dinitro-2-Methylphe		mg∕Kg	EPA 8270	09/09 10/03	MTT
n-Nitrosodiphenylamine		mg/Kg	EPA 8270	09/09 10/03	MTT
4-Bromophenyl-Phenyleth		mg/Kg	EPA 8270	09/09 10/03	MTT
Hexachlorobenzene	2.90 U 2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Pentachlorophenol		™g/Kg	EPA 8270	09/09 10/03	MTT
Phenanthrene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Anthracene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	TTM
di-n-Butylphthalate	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Fluoranthene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Pyrene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Butylbenzylphthalate	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
3,3-Dichlorobenzidine	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Benzo(a)Anthracene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Chrysene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
bis(2-Ethylhexyl)Phthal	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
di-n-Octylphthalate	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Benzo(b)Fluoranthene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Benzo(k)Fluoranthene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Benzo(a)Pyrene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Indeno(1,2,3-cd)Pyrene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Dibenz(a,h)Anthracene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
Benzo(g,h,i)Perylene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
beinzo(g,n,r)reryrene	2.90 U	mg/Kg	EPA 8270	09/09 10/03	MTT
				,, 03	***

See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit. = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



**§ SGS** Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4425-3

Client Sample ID :LON-SS01-SD04

Matrix

Client Name Ordered By Project Name :ICF KAISER ENGINEERING :RAY MORRIS :DEW LINE

:SOIL

Project# : LONELY PWSID :UA

REPORT of ANALYSIS

ANCHORAGE, AK 99518 TEL: (907) 562-23-13 FAX: (907) 561-5301

5633 B S

WORK Order :70211 Report Completed :10/27/93

Collected :08/26/93

@ 10:30 hrs Received :08/29/93 @ 12:45 hrs

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.030	U	mg/Kg	EPA 8260		08/30	09/14	KWM
Bromobenzene	0.030	U	mg/Kg	EPA 8260			09/14	KWM
Bromochloromethane	0.030	U	mg/Kg	EPA 8260			09/14	KWM
Bromodichloromethane	0.030	U	mg/Kg	EPA 8260			09/14	KWM
Bromoform	0.030	U	mg/Kg	EPA 8260			09/14	KWM
Bromomethane	0.030	U	mg/Kg	EPA 8260			09/14	KWM
n-Butylbenzene	0.372		mg/Kg	EPA 8260			09/14	KWM
sec-Butylbenzene	0.030	U	mg/Kg	EPA 8260			09/14	KWM
tert-Butylbenzne	0.030	Ü	mg/Kg	EPA 8260			09/14	NAI!
Carbon Tetrachloride	0.030	U	mg/Kg	EPA 8260			09/14	A I
Chlorobenzene	0.030	U	mg/Kg	EPA 8260			09/14	KRM
Chloroethane	0.030	U	mg/Kg	EPA 8260		08/30		KWH
Chloroform	0.030	U	mg/Kg	EPA 8260			09/14	KWM
Chloromethane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
2-Chlorotoluene	0.030	U	mg/Kg	EPA 8260		08/30	•	KWH
4-Chlorotoluene	0.030	U	mg/Kg	EPA 8260		08/30		KWM
Dibromochloromethane	0.030	U	mg/Kg	EPA 8260		08/30		KWH
12Dibromo3Chloropropane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,2-Dibromoethane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
Dibromomethane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,2-Dichlorobenzene	0.030	Ŭ	mg/Kg	EPA 8260		08/30		KWM
1,3-Dichlorobenzene	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,4-Dichlorobenzene	0.030	U	mg/Kg	EPA 8260 ,		08/30		KWM
Dichlorodifluoromethane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,1-Dichloroethane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,2-Dichloroethane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,1-Dichloroethene	0.030	U	mg/Kg	EPA 8260		08/30		KWM
cis-1,2-Dichloroethene	0.030	U	mg/Kg	EPA 8260		08/30		KWM
trans1,2-Dichloroethene	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,2-Dichloropropane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,3-Dichloropropane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
2,2-Dichloropropane	0.030	U	mg/Kg	EPA 8260		08/30		KWM
1,1-Dichloropropene	0.030	U	mg/Kg	EPA 8260	•	08/30		KWM
Ethylbenzene	0.030	U	mg/Kg	EPA 8260	•	08/30		KWM
Hexachlorobutadiene	0.030	U	mg/Kg	EPA 8260		08/30		KWM
Isopropylbenzene	0.030		mg/Kg	EPA 8260		08/30		KWM
p-Isopropyltoluene	0.037		mg/Kg	EPA 8260		08/30		MITT
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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS hemlab Ref.# :93.4425-3 5633 B STREET ANCHORAGE, AK 99518 Client Sample ID :LON-SS01-SD04 TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 561-5301 Methylene Chloride 0.030 mg/Kg EPA 8260 08/30 09/14 KWM Napthalene 0.187 mg/Kg EPA 8260 08/30 09/14 KWM n-Propylbenzene 0.030 U mq/Kq EPA 8260 08/30 09/14 KWM Styrene 0.030 11 mg/Kg EPA 8260 08/30 09/14 KWM 1112-Tetrachloroethane 0.030 H mq/Ka EPA 8260 08/30 09/14 KWM 1122-Tetrachloroethane 0.030 U mq/Kq EPA 8260 08/30 09/14 KWM Tetrachloroethene 0.030 U mg/Kg EPA 8260 08/30 09/14 KWM Toluene 0.030 11 mg/Kq EPA 8260 08/30 09/14 KWM 1,2,3-Trichlorobenzene 0.030 U EPA 8260 mg/Kg 08/30 09/14 **KWM** 1,2,4-Trichlorobenzene 0.030 11 mq/Ka EPA 8260 08/30 09/14 KWM 1,1,1-Trichloroethane 0.030 IJ mg/Kg EPA 8260 08/30 09/14 KWM 1,1,2-Trichloroethane 0.030 mg/Kg EPA 8260 08/30 09/14 KWM Trichloroethene 0.030 mg/Kg EPA 8260 08/30 09/14 KWM Trichlorofluoromethane 0.030 mg/Kg EPA 8260 08/30 09/14 KWM 1,2,3-Trichloropropane 0.030 mg/Kg EPA 8260 08/30 09/14 KWM 1,2,4-Trimethylbenzene 0.313 ma/Ka EPA 8260 08/30 09/14 KWM 1,3,5-Trimethylbenzene 0.774 mg/Kg EPA 8260 08/30 09/14 KWM Vinyl Chloride 0.030 U mg/Kg EPA 8260 08/30 09/14 KWM p+m-Xylene 0.069 ma/Ka **EPA** 8260 08/30 09/14 KWM o-Xylene 0.082 mg/Kq EPA 8260 08/30 09/14 KWM Semivolatile Organics EPA 8270 Phenol 2.50 U mq/Kq EPA 8270 09/09 10/03 MTT bis(2-Chloroethyl)ether 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT 2-Chlorophenol 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT 1,3-Dichlorobenzene 2.50 U mg/Ka EPA 8270 09/09 10/03 MTT 1,4-Dichlorobenzene 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT Benzyl Alcohol 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT 1,2-Dichlorobenzene 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT 2-Methylphenol 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT bis(2-Chloroisopropyl)e 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT 4-Methylphenol 2.50 U mg/Kg **EPA** 8270 09/09 10/03 MTT n-Nitroso-di-n-Propylam 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT Hexachloroethane 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT Nitrobenzene 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT Isophorone 2.50 IJ mg/Kg EPA 8270 09/09 10/03 MIT 2-Nitrophenol 2.50 U mg/Kg EPA 8270 . 09/09 10/03 MTT 2,4-Dimethylphenol 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT Benzoic Acid 2.50 U ma/Ka EPA 8270 09/09 10/03 MTT bis(2-Chloroethoxy)Meth 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT 2,4-Dichlorophenol 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT 1,2,4-Trichlorobenzene 2.50 U mg/Kg **EPA 8270** 09/09 10/03 MTT Naphthalene 2.50 U mg/Kg **EPA 8270** 09/09 10/03 MTT 4-Chloroaniline 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT Hexachlorobutadiene 2.50 U mg/Kg **EPA 8270** 09/09 10/03 MTT 4-Chloro-3-Methylphenol 2.50 U mg/Ka **EPA 8270** 09/09 10/03 MTT 2-Methylnaphthalene 2.50 U mq/Ka EPA 8270 09/09 10/03 MTT Hexachlorocyclopentadie 2.50 U mg/Kq EPA 8270 09/09 10/03 MTT 2,4,6-Trichlorophenol 2.50 U mq/Ka EPA 8270 09/09 10/03 MTT 2,4,5-Trichlorophenol 2.50 U mg/Kg EPA 8270 09/09 10/03 MTT 2-Chloronaphthalene 2.50 U mq/Ka EPA 8270 09/09 10/03 MTT





ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.#

:93.4425-3

Client Sample ID :LON-SS01-SD04

Matrix

:SOIL

REPORT of ANALYSIS

5633 B STREE ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



**SSS** Member of the SGS Group (Société Générale de Surveillance)



Client Name

Ordered By

Project#

PWSID

Project Name

#### COMMERCIAL TESTING & ENGINEERING CO.

**ENVIRONMENTAL LABORATORY SERVICES** 

:ICF KAISER ENGINEERING

:RAY MORRIS

:DEW LINE

:LONELY

:UA

REPORT of ANALYSIS

:93.4430-1 Chemlab Ref.# Client Sample ID :LON-SS01-SW01

Matrix :WATER

> WORK Order :70221

Report Completed :09/28/93

Collected :08/26/93 @ 10:15 hrs. Received :08/29/93 @ 12:45 hrs.

5633 B STREET

TEL: (907) 562-2343 FAX: (907) 561-5301

ANCHORAGE, AK 99518

Technical Director: STEPHEN C. EDE

Released By : /

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., P.M.J., AND M. LEMMA.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromochloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromoform	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromomethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
ert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
arbon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloroethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloroform	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloromethane	0.0066		mg/L	EPA 8260		09/03	09/03	KWM
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/03	KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Dibromomethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
1.4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		-	09/03	KWM
1,2-Dichloroethane	0.0077		mg/L	EPA 8260			09/03	KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/03	KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/03	KWM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/03	KWM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260	•		09/03	KWM
Ethylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Hexachlorobutadiene	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

:93.4430-1 Chemlab Ref.# Client Sample ID :LON-SS01-SW01

Matrix . WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Matrix	:WATER					F	AX: (907) 56	1-5301
Methylene	Chloride	0.0010	U	mg/L	EPA 8260	09/03	09/03	KWM
Napthalene	<b>;</b>	0.0010	U	mg/L	EPA 8260	09/03		KWM
n-Propylbe	enzene	0.0010	Ü	mg/L	EPA 8260	09/03		KWM
Styrene		0.0010	U	mg/L	EPA 8260	09/03		KWM
1112-Tetra	chloroethane	0.0010	U	mg/L	EPA 8260	09/03		KWM
1122-Tetra	chloroethane	0.0010	U	mg/L	EPA 8260	09/03		KWM
Tetrachlor	roethene	0.0010	U	mg/L	EPA 8260	09/03		KWM
Toluene		0.0010	U	mg/L	EPA 8260	09/03		KWM
1,2,3-Tric	chlorobenzene	0.0010	U	mg/L	EPA 8260	09/03		KWM
1,2,4-Tric	chlorobenzene	0.0010	U	mg/L	EPA 8260	09/03		KWM
1,1,1-Tric	chloroethane	0.0010	U	mg/L	EPA 8260	09/03		KWM
1,1,2-Tric	chloroethane	0.0010	U	mg/L	EPA 8260	09/03		KWM
Trichloroe		0.0010	U	mg/L	EPA 8260	09/03		KWM
	luoromethane	0.0010	U	mg/L	EPA 8260	09/03		KWM
1,2,3-Tric	chloropropane	0.0010	U	mg/L	EPA 8260	09/03		KWM
1,2,4-Trim	nethylbenzene	0.0010	U	mg/L	EPA 8260	09/03		KWM
1,3,5-Trim	nethylbenzene	0.0010	U	mg/L	EPA 8260	09/03		KWM
Vinyl Chlo	ride	0.0010	Ü	mg/L	EPA 8260	09/03		KWM
p+m-Xylene	<u> </u>	0.0010	U	mg/L	EPA 8260	09/03		KWM
o-Xylene		0.0010	U	mg/L	EPA 8260	09/03		KWM
	le Organics				EPA 8270			
Phenol		0.010	U	mg/L	EPA 8270	09/02	09/24	MT
	roethyl)ether	0.010	U	mg/L	EPA 8270	09/02	09/24	MI
2-Chloroph		0.010	U	mg/L	EPA 8270	09/02	09/24	MTT
1,3-Dichlo		0.010	U	mg/L	EPA 8270	09/02	09/24	MTT
1,4-Dichlo		0.010	U	mg/L	EPA 8270	09/02	09/24	MTT
Benzyl Alc		0.010	U	mg/L	EPA 8270	09/02	09/24	MTT
1,2-Dichlo		0.010	U	mg/L	EPA 8270		09/24	MTT
2-Methylph		0.010	U	mg/L	EPA 8270		09/24	· MTT
	proisopropyl)e	0.010	U	mg/L	EPA 8270		09/24	MTT
4-Methylph		0.010	U	mg/L	EPA 8270		09/24	MTT
	-di-n-Propylam	0.010	U	mg/L	EPA 8270		09/24	MTT
Hexachloro		0.010	U	mg/L	EPA 8270		09/24	MTT
Nitrobenze		0.010	U	mg/L	EPA 8270		09/24	MIT
Isophorone		0.010	U	mg/L	EPA 8270		09/24	MTT
2-Nitrophe		0.010	U	mg/L	EPA 8270	09/02		MTT
2,4-Dimeth		0.010	U	mg/L	EPA 8270		09/24	MTT
Benzoic Ac		0.010	U	mg/L	EPA 8270		09/24	MTT
	proethoxy)Meth	0.010	U	mg/L	EPA 8270		09/24	MTT
2,4-Dichlo		0.010	U	mg/L	EPA 8270		09/24	MTT
	chlorobenzene	0.010	U	mg/L	EPA 8270		09/24	MTT
Naphthaler 4-Chloroar		0.010	U	mg/L	EPA 8270		09/24	HTT
		0.010	U	mg/L	EPA 8270		09/24	MTT
Hexachloro	B-Methylphenol	0.010 0.010	· U	mg/L	EPA 8270		09/24	MTT
			U	mg/L	EPA 8270		09/24	MTT
2-Methylna	ocyclopentadie	0.010 0.010	U U	mg/L	EPA 8270		09/24	MTT
	chlorophenol	0.010	Ü	mg/L	EPA 8270		09/24	MTT
	chlorophenol	0.010	Ü	mg/L	EPA 8270 EPA 8270		09/24	MTT
2-Chlorona		0.010	Ü	mg/L mg/L	EPA 8270		09/24 09/24	MTT
Z CHICKONG	PHEHILLE	0.010	u	mg/L	ELA 0210	03/02	U 7/ Z4	MT





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET Chemlab Ref.# :93.4430-1 ANCHORAGE, AK 99518 Client Sample ID :LON-SS01-SW01 TEL: (907) 562-2343 Matrix :WATER FAX: (907) 561-5301 2-Nitroaniline 0.010 Ū mq/L **EPA** 8270 09/02 09/24 MTT Dimethylphthalate 0.010 U EPA 8270 mg/L 09/02 09/24 MTT Acenaphthylene 0.010 11 mg/L EPA 8270 09/02 09/24 MTT 2.6-Dinitrotoluene 0.010 11 mg/L EPA 8270 09/02 09/24 MTT 3-Nitroaniline 0.010 H EPA 8270 mg/L 09/02 09/24 MTT Acenaphthene 0.010 **EPA** 8270 11 mg/L 09/02 09/24 MTT 2.4-Dinitrophenol 0.010 IJ **EPA** 8270 mg/L 09/02 09/24 MTT 4-Nitrophenol 0.010 11 mg/L EPA 8270 09/02 09/24 MTT Dibenzofuran 0.010 U mq/L EPA 8270 09/02 09/24 MTT 2.4-Dinitrotoluene 0.010 U **EPA** 8270 09/02 09/24 mq/L MTT Diethylphthalate 0.010 H mq/L EPA 8270 09/02 09/24 MTT 4-Chlorophenyl-Phenylet 0.010 H mg/L EPA 8270 09/02 09/24 MTT Fluorene 0.010 EPA 8270 H mg/L 09/02 09/24 MTT 4-Nitroaniline 0.010 EPA 8270 U mg/L 09/02 09/24 MTT 4.6-Dinitro-2-Methylphe 0.010 EPA 8270 U mq/L 09/02 09/24 MTT n-Nitrosodiphenylamine 0.010 EPA 8270 U mq/L 09/02 09/24 MTT 4-Bromophenyl-Phenyleth 0.010 EPA 8270 09/02 09/24 U mg/L MIT Hexachlorobenzene EPA 8270 0.010 U mq/L 09/02 09/24 MTT Pentachlorophenol 0.010 U EPA 8270 mq/L 09/02 09/24 MTT Phenanthrene 0.010 U mg/L EPA 8270 09/02 09/24 MTT Anthracene 0.010 EPA 8270 09/02 09/24 U mq/L MIT di-n-Butylphthalate 0.010 mg/L EPA 8270 U 09/02 09/24 MTT uoranthene 0.010 mg/LEPA 8270 09/02 09/24 U MTT EPA 8270 rene 0.010 U mq/L09/02 09/24 MTT Butylbenzylphthalate 0.010 U EPA 8270 mg/L 09/02 09/24 MTT 3.3-Dichlorobenzidine 0.010 U **EPA** 8270 09/02 09/24 mg/L MTT Benzo(a)Anthracene 0.010 EPA 8270 H mg/L 09/02 09/24 MTT Chrysene 0.010 U EPA 8270 mg/L 09/02 09/24 MTT bis(2-Ethylhexyl)Phthal 0.010 11 EPA 8270 mg/L 09/02 09/24 MTT di-n-Octylphthalate 0.010 EPA 8270 11 mg/L 09/02 09/24 MTT Benzo(b)Fluoranthene 0.010 U EPA 8270 mg/L 09/02 09/24 MTT Benzo(k)Fluoranthene 0.010 U EPA 8270 mq/L 09/02 09/24 MTT Benzo(a)Pyrene EPA 8270 0.010 U mq/L 09/02 09/24 MTT Indeno(1,2,3-cd)Pyrene 0.010 U mg/L EPA 8270 09/02 09/24 MTT Dibenz(a,h)Anthracene 0.010 U mq/L EPA 8270 09/02 09/24 MTT Benzo(g,h,i)Perylene 0.010 U **EPA** 8270 mq/L 09/02 09/24 MTT TOC. Nonpurgable EPA 9060 n/a ...TOC Range 64.2-64.9 **EPA** 9060 mq/L 09/10 CMR ...TOC Concentration 64.5 mg/L EPA 9060 09/10 CMR Residue, Non-Filterable EPA 160.2 28 ma/L 09/02 09/02 **GPP** Residue, Filterable (TDS) 1050 mg/L EPA 160.1 500 09/08 09/10

See Special Instructions Above

See Sample Remarks Above

Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

**RJK** 

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



Client Name

Ordered By

#### COMMERCIAL TESTING & ENGINEERING CO.

**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

Chemlab Ref.# :93.4430-2 Client Sample ID :LON-SS01-SW04

:WATER Matrix

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

WORK Order :70221 :ICF KAISER ENGINEERING :RAY MORRIS Report Completed :09/28/93

Project Name : DEW LINE Collected :08/26/93 @ 14:20 hrs. Received :08/29/93 @ 12:45 hrs. Project# : LONELY

Technical Director: STEPHEN, C. EDE :UA PWSID

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., P.M.J., AND M. LEMMA.

		QC			Allowable	Ext.	Anal	
Parameter	Results	Qual	Units	Method	Limits	Date	Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Bromochloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromoform	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromomethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
sec-Butylbenzene	0.0010		mg/L	EPA 8260			09/03	KWM
tert-Butylbenzne	0.0010		mg/L	EPA 8260			09/03	K
Carbon Tetrachloride	0.0010		mg/L	EPA 8260			09/03	K
Chlorobenzene	0.0010		mg/L	EPA 8260			09/03	KWIT
Chloroethane	0.0010		mg/L	EPA 8260			09/03	KWM
Chloroform	0.0010		mg/L	EPA 8260			09/03	KWM
Chloromethane	0.0010		mg/L	EPA 8260			09/03	KWM
2-Chlorotoluene	0.0010		mg/L	EPA 8260			09/03	KWM
4-Chlorotoluene	0.0010		mg/L	EPA 8260			09/03	KWM
Dibromochloromethane	0.0010		mg/L	EPA 8260			09/03	KWM
12Dibromo3Chloropropane	0.0010		mg/L	EPA 8260			09/03	KWM
1,2-Dibromoethane	0.0010		mg/L	EPA 8260			09/03	KWM
Dibromomethane	0.0010		mg/L	EPA 8260			09/03	KWM
1,2-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	KWM
1,3-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	KWM
1,4-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	KWM
Dichlorodifluoromethane	0.0010		mg/L	EPA 8260			09/03	KWM
1,1-Dichloroethane	0.0010		mg/L	EPA 8260			09/03	KWM
1,2-Dichloroethane	0.0034		mg/L	EPA 8260			09/03 09/03	KWM KWM
1,1-Dichloroethene	0.0010		mg/L	EPA 8260 EPA 8260			09/03	KWM
cis-1,2-Dichloroethene	0.0010 0.0010		mg/L	EPA 8260			09/03	KWM
trans1,2-Dichloroethene			mg/L mg/L	EPA 8260			09/03	KWM
1,2-Dichloropropane	0.0010 0.0010		mg/L	EPA 8260			09/03	KWM
1,3-Dichloropropane	0.0010		mg/L	EPA 8260			09/03	KWM
2,2-Dichloropropane	0.0010		mg/L	EPA 8260			09/03	KWM
1,1-Dichloropropene	0.0010		mg/L	EPA 8260	*:		09/03	KWM
Ethylbenzene Hexachlorobutadiene	0.0010		mg/L	EPA 8260			09/03	KWM
Isopropylbenzene	0.0010		mg/L	EPA 8260			09/03	KWM
p-Isopropyltoluene	0.0010		mg/L	EPA 8260			09/03	Krim
h-190h10h1110111eiie	0.0010			L. 11 0200		, ••	, ••	



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

Chemlab Ref.# :93.4430-2 Client Sample ID :LON-SS01-SW04

5633 B STREET ANCHORAGE, AK 99518

Methylene Chloride         0.0010         U         mg/L         EPA         8260         09/03         09/03         KWN           Napthalene         0.0010         U         mg/L         EPA         8260         09/03         09/03         KWN           n-Propylbenzene         0.0010         U         mg/L         EPA         8260         09/03         09/03         KWN           1112-Tetrachloroethane         0.0010         U         mg/L         EPA         8260         09/03         09/03         KWN           1112-Tetrachloroethane         0.0010         U         mg/L         EPA         8260         09/03         09/03         KWN           Tetrachloroethene         0.0010         U         mg/L         EPA         8260         09/03         09/03         KWN           Toluene         0.0010         U         mg/L         EPA         8260         09/03         09/03         KWN           1.2.4-Trichlorobenzene         0.0010         U         mg/L         EPA         8260         09/03         09/03         KWN           1.1.2-Trichlorobenzene         0.0010         U         mg/L         EPA         8260         09/03         09/03	Client Sample ID :LON-SS01-S	SW04			TEL: (907) 562-	2343
Napthalene	Matrix : WATER				FAX: (907) 561-	.5301
Napthalene	Methylene Chloride	0.0010 U	ma/L	EPA 8260	09/03 09/03	KWM
n-Propylenzene						
Styrene						
1112-Tetrachloroethane	· · · · · · · · · · · · · · · · · · ·					
1122-Tetrachloroethane						
Tetrachloroethene						
Toluene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.2.4—Trichlorobenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.2.4—Trichloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.1.1.2—Trichloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.1.1.2—Trichloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWH Trichloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWH Trichloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWH Trichloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.2.4—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.2.4—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.2.4—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8270 09/03 09/03 KWH 1.3.5—Trimethylbenzene 0.0010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/02 WHT 1.3—Dichlorobenzene 0						
1,2,3-Trichlorobenzene						
1,2,4-Trichlorobenzene						
1,1,1-Trichloroethane						
1,1,2-Trichloroethane					· · · · · · · · · · · · · · · · · · ·	
Trichloroethene						
Trichlorofluoromethane					· · · · · · · · · · · · · · · · · · ·	
1.2.3-Trichloropropane						
1,2,4-Trimethylbenzene			_			
1,3,5-Trimethylbenzene						
Vinyl Chloride         0.0010         U         mg/L         EPA 8260         09/03 09/03 09/03         KWM           p+m-Xylene         0.0010         U         mg/L         EPA 8260         09/03 09/03 09/03         KWM           Semivolatile Organics         EPA 8270         EPA 8270         09/02 09/24 MTT           scolorophenol         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT           1,3-Dichlorobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT           1,4-Dichlorobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT           1,4-Dichlorobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT           1,2-Dichlorobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT           1,2-Dichlorobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT           1,2-Dichlorobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT           1,2-Dichlorobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT           1,1-2-Dichlorobenzene						
P+m-Xylene						
Semivolatile Organics			_			
Semivolatile Organics			_			
enol	0-kyrene	0.0010	mg/L	EPA 0200	03/03 03/03	KWII
S(2-Chloroethyl)ether						
Z-Chlorophenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           1,3-Dichlorobenzene         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           1,4-Dichlorobenzene         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           1,2-Dichlorobenzene         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2-Methylphenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           bis(2-Chloroisopropyl)e         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           -Methylphenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           -Mitroso-di-n-Propylam         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Hexachloroethane         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1,3-Dichlorobenzene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         1,4-Dichlorobenzene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Benzyl Alcohol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         1,2-Dichlorobenzene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Methylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         bis(2-Chloroisopropyl)e       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Methylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         n-Nitroso-di-n-Propylam       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachloroethane       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Isophorone       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Nitrophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Nitrophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Nitrophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Nitrophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Nitrophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Nitroph			mg/L			MTT
1,4-Dichlorobenzene       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Benzyl Alcohol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         1,2-Dichlorobenzene       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2-Methylphenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         4-Methylphenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         1-Nitroso-di-n-Propylam       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Hexachloroethane       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Nitrobenzene       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         1sophorone       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2,4-Dimethylphenol       0.010       U       mg/L       EPA       8270       09/02<			mg/L			MTT
Benzyl Alcohol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           1,2-Dichlorobenzene         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2-Methylphenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           4-Methylphenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           n-Nitroso-di-n-Propylam         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           n-Nitroso-di-n-Propylam         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Hexachloroethane         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Isophorone         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2-Nitrophenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT			mg/L			MTT
1,2-Dichlorobenzene       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2-Methylphenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         bis(2-Chloroisopropyl)e       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         4-Methylphenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         n-Nitroso-di-n-Propylam       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Hexachloroethane       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Nitrobenzene       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2-Nitrophenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2,4-Dimethylphenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Benzoic Acid       0.010       U       mg/L       EPA       8270       0						
2-Methylphenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT bis(2-Chloroisopropyl)e 0.010 U mg/L EPA 8270 09/02 09/24 MTT 4-Methylphenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT n-Nitroso-di-n-Propylam 0.010 U mg/L EPA 8270 09/02 09/24 MTT Hexachloroethane 0.010 U mg/L EPA 8270 09/02 09/24 MTT Nitrobenzene 0.010 U mg/L EPA 8270 09/02 09/24 MTT Isophorone 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-Nitrophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-Nitrophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-Nitrophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-A-Dimethylphenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT bis(2-Chloroethoxy)Meth 0.010 U mg/L EPA 8270 09/02 09/24 MTT bis(2-Chloroethoxy)Meth 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-4-Dichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-4-Trichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-4-Trichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-4-Trichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-4-Chloro-3-Methylphenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1-2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT						
bis(2-Chloroisopropyl)e         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         MTT           4-Methylphenol         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         MTT           n-Nitroso-di-n-Propylam         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         MTT           Hexachloroethane         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         MTT           Nitrobenzene         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         O9/02 09/24 MTT           Isophorone         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         O9/02 09/24 MTT           2-Nitrophenol         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         O9/02 09/24 MTT           2-A-Dimethylphenol         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         O9/02 09/24 MTT           bis(2-Chloroethoxy)Meth         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         O9/02 09/24 MTT           2,4-Dichlorophenol         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         O9/02 09/24 MTT           1,2,4-Trichlorobenzene         0.010 U mg/L         EPA 8270         09/02 09/24 MTT         O9/02 09/24 MTT           4-Chloroa-3-Methylphenol         0.010 U mg/L         EPA 8270         09/02 09/24 MTT <td< td=""><td></td><td></td><td></td><td></td><td>09/02 09/24</td><td></td></td<>					09/02 09/24	
4-Methylphenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         n-Nitroso-di-n-Propylam       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Hexachloroethane       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Nitrobenzene       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2-Nitrophenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2-Nitrophenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2-Nitrophenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2-A-Dimethylphenol       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         Benzoic Acid       0.010       U       mg/L       EPA       8270       09/02       09/24       MTT         2-4-Dichloroethoxy)Meth       0.010       U       mg/L       EPA       8270       09/02 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
n-Nitroso-di-n-Propylam         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Hexachloroethane         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Nitrobenzene         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Isophorone         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2-Nitrophenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2,4-Dimethylphenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           bis(2-Chloroethoxy)Meth         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2,4-Dichlorophenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           1,2,4-Trichlorophenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT			mg/L			
Hexachloroethane         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Nitrobenzene         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Isophorone         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2-Nitrophenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2,4-Dimethylphenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2,4-Dichlorophenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           2,4-Dichlorophenol         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           1,2,4-Trichlorobenzene         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT           Naphthalene         0.010         U         mg/L         EPA         8270         09/02         09/24         MTT <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
Nitrobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           Isophorone         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           2-Nitrophenol         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           2,4-Dimethylphenol         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           Benzoic Acid         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           bis(2-Chloroethoxy)Meth         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           2,4-Dichlorophenol         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           1,2,4-Trichlorobenzene         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           4-Chloroaniline         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         MTT           4-Chloro-3-Methylphenol         0.010         U         mg/L         EPA 8270         09/02 09/24 MTT         O9/02 09/24 MTT         D9/02 09/24 MTT         EPA 8270						
Isophorone       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Nitrophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4-Dimethylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Benzoic Acid       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         bis(2-Chloroethoxy)Meth       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4-Dichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         1,2,4-Trichlorobenzene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Naphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloroaniline       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloro-3-Methylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Methylnaphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT			mg/L			
2-Nitrophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4-Dimethylphenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT Benzoic Acid 0.010 U mg/L EPA 8270 09/02 09/24 MTT bis(2-Chloroethoxy)Meth 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4-Dichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 1,2,4-Trichlorobenzene 0.010 U mg/L EPA 8270 09/02 09/24 MTT Naphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 4-Chloroaniline 0.010 U mg/L EPA 8270 09/02 09/24 MTT 4-Chloroaniline 0.010 U mg/L EPA 8270 09/02 09/24 MTT 4-Chloro-3-Methylphenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 4-Chlorocyclopentadie 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4,6-Trichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4,5-Trichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4,5-Trichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4,5-Trichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT						
2,4-Dimethylphenol       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         Benzoic Acid       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         bis(2-Chloroethoxy)Meth       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         2,4-Dichlorophenol       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         1,2,4-Trichlorobenzene       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         Naphthalene       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         4-Chloroaniline       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         Hexachlorobutadiene       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         4-Chloro-3-Methylphenol       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         2-Methylnaphthalene       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         Hexachlorocyclopentadie       0.010       U       mg/L       EPA 8270       09/02 09/24       MTT         2,4,6-Trichlorophen						
Benzoic Acid         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           bis(2-Chloroethoxy)Meth         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           2,4-Dichlorophenol         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           1,2,4-Trichlorobenzene         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           Naphthalene         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           4-Chloroaniline         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           Hexachlorobutadiene         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           2-Methylnaphthalene         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           Hexachlorocyclopentadie         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           2,4,6-Trichlorophenol         0.010 U mg/L         EPA 8270         09/02 09/24 MTT           2,4,5-Trichlorophenol         0.010 U mg/L         EPA 8270         09/02 09/24 MTT	•		_			
bis(2-Chloroethoxy)Meth       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4-Dichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         1,2,4-Trichlorobenzene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Naphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloroaniline       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorobutadiene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Methylnaphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT						
2,4-Dichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         1,2,4-Trichlorobenzene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Naphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloroaniline       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorobutadiene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloro-3-Methylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Methylnaphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT						
1,2,4-Trichlorobenzene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Naphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloroaniline       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorobutadiene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloro-3-Methylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Methylnaphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT						
Naphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloroaniline       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorobutadiene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloro-3-Methylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Methylnaphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT						
4-Chloroaniline 0.010 U mg/L EPA 8270 09/02 09/24 MTT Hexachlorobutadiene 0.010 U mg/L EPA 8270 09/02 09/24 MTT 4-Chloro-3-Methylphenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2-Methylnaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT Hexachlorocyclopentadie 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4,6-Trichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4,5-Trichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT 2,4,5-Trichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT						
Hexachlorobutadiene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         4-Chloro-3-Methylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Methylnaphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT						
4-Chloro-3-Methylphenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2-Methylnaphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT						
2-Methylnaphthalene       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT						
Hexachlorocyclopentadie       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT						
2,4,6-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT         2,4,5-Trichlorophenol       0.010 U mg/L       EPA 8270       09/02 09/24 MTT			_			
2,4,5-Trichlorophenol 0.010 U mg/L EPA 8270 09/02 09/24 MTT						
Chloronaphthalene 0.010 U mg/L EPA 8270 09/02 09/24 MTT						
	-Chloronaphthalene	0.010 U	mg/L	EPA 8270	09/02 09/24	MTT





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4430-2 Client Sample ID :LON-SS01-SW04 5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

Matrix :WATE	ER					FA	X: (907) 561	-5301
2-Nitroaniline	0.010	U	mg/L	EPA 8270		09/02	09/24	MTT
Dimethylphthalate	0.010	U	mg/L	EPA 8270		09/02		MTT
A enaphthylene	0.010	U	mg/L	EPA 8270		09/02		MTT
<pre>-Dinitrotoluene</pre>	0.010	U	mg/L	EPA 8270		09/02		MTT
: itroaniline	0.010	U	mg/L	EPA 8270		09/02		MTT
Acenaphthene	0.010	U	mg/L	EPA 8270		09/02		MTT
2,4-Dinitrophenol	0.010	U	mg/L	EPA 8270		09/02		MTT
4-Nitrophenol	0.010	U	mg/L	EPA 8270		09/02		MTT
Dibenzofuran	0.010	U	mg/L	EPA 8270		09/02		MTT
2,4-Dinitrotoluene		U	mg/L	EPA 8270		09/02		MTT
Diethylphthalate	0.010	U	mg/L	EPA 8270		09/02		MTT
4-Chlorophenyl-Pheny		U	mg/L	EPA 8270		09/02		MTT
Fluorene	0.010	U	mg/L	EPA 8270		09/02		MTT
4-Nitroaniline	0.010	U	mg/L	EPA 8270		09/02		MTT
4,6-Dinitro-2-Methy.		U	mg/L	EPA 8270		09/02		MTT
n-Nitrosodiphenylam		U	mg/L	EPA 8270		09/02		MTT
4-Bromophenyl-Pheny.		U	mg/L	EPA 8270		09/02		MTT
Hexachlorobenzene	0.010	U	mg/L	EPA 8270		09/02		MTT
Pentachlorophenol	0.010	Ü	mg/L	EPA 8270		09/02		MTT
Phenanthrene	0.010	U	mg/L	EPA 8270		09/02		MTT
Anthracene	0.010	U	mg/L	EPA 8270		09/02		MTT
di-n-Butylphthalate		Ü	mg/L	EPA 8270		09/02		MTT
Fluoranthene	0.010	Ü	mg/L	EPA 8270		09/02		MT
Pyrene	0.010	Ü	mg/L	EPA 8270		09/02		MI
Butylbenzylphthalat		U	mg/L	EPA 8270		09/02		MTT
3,3-Dichlorobenzidi		U	mg/L	EPA 8270 EPA 8270		09/02		MTT
Benzo(a)Anthracene	0.010	U	mg/L	EPA 8270		09/02		MTT MTT
Chrysene	0.010 thal 0.010	U U	mg/L	EPA 8270 EPA 8270		09/02 09/02		MTT
<pre>bis(2-Ethylhexyl)Ph di-n-Octylphthalate</pre>		Ü	mg/L mg/L	EPA 8270		09/02		MTT
Benzo(b)Fluoranthen		Ü	mg/L	EPA 8270		09/02		MTT
		Ü	mg/L	EPA 8270		09/02		MTT
Benzo(k)Fluoranthen Benzo(a)Pyrene	0.010 0.010	Ü	mg/L	EPA 8270		09/02		MTT
Indeno(1,2,3-cd)Pyr		บ	mg/L	EPA 8270		09/02		MTT
Dibenz(a,h)Anthrace		Ü	mg/L	EPA 8270		09/02		MTT
Benzo(g,h,i)Perylen		Ü	mg/L	EPA 8270		09/02		MTT
benzo(g,n,1)1 eryren	0.010	J	g/ L	LAR OLIV		0 3 / 0 2	0 ) / 2 4	
TOC, Nonpurgable				EPA 9060	n/a			
TOC Range	49.1-49.9		mg/L	EPA 9060	, _		09/13	CMR
TOC Concentratio			mg/L	EPA 9060			09/13	CMR
			<del>-</del> -					
esidue, Non-Filter	able 19		mg/L	EPA 160.2		09/02		G <b>PP</b>
kesidue,Filterable(			mg/L	EPA 160.1	5 <b>00</b>	09/08	09/10	RJK

* See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4430-3 Client Sample ID :LON-SS01-SW06

Matrix :WATER

> WORK Order :70221

Report Completed :09/28/93

Collected :08/26/93 @ 10:15 hrs. :08/29/93 @ 12:45 hrs. Received

5633 B STREET

TEL: (907) 562-2343

FAX: (907) 561-5301

ANCHORAGE, AK 99518

Technical Director: STEPHEN C. EDE

Released By :

Client Name Ordered By

Project Name

:RAY MORRIS :DEW LINE

:ICF KAISER ENGINEERING

Project# :LONELY PWSID :UA

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., P.M.J., AND M. LEMMA.

Parameter	Dogwide	QC	11	W-41- 1	Allowable	Ext.	Anal	
rarameter	Results	Quai	onits	Method	Limits	Date	Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		09/04	09/04	KWM
Bromobenzene	0.0010	U	mg/L	EPA 8260		09/04	09/04	KWM
Bromochloromethane	0.0010	Ü	mg/L	EPA 8260		09/04	09/04	KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/04	KWM
Bromoform	0.0010	U	mg/L	EPA 8260		09/04	09/04	KWM
Bromomethane	0.0010	U	mg/L	EPA 8260			09/04	KWM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/04	09/04	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/04	KWM
ert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/04	KWM
rbon Tetrachloride	0.0010	U	mg/L	EPA 8260			09/04	KWM
chlorobenzene	0.0010	U	mg/L	EPA 8260			09/04	KWM
Chloroethane	0.0010	U	mg/L	EPA 8260			09/04	KWM
Chloroform	0.0010	U	mg/L	EPA 8260			09/04	KWM
Chloromethane	0.0010	Ü	mg/L	EPA 8260			09/04	KWM
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/04	KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/04	KWM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260			09/04	KWM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260			09/04	KWM
Dibromomethane	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/04	KWM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,2-Dichloroethane	0.0023		mg/L	EPA 8260		09/04	09/04	KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/04	KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/04	KWM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/04	09/04	KWM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/04	KWM
1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260			09/04	KWM
Ethylbenzene	0.0010	U	mg/L	EPA 8260			09/04	KWM
Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260			09/04	KWM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260			09/04	KWM
p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260			09/04	KWM



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.#

REPORT of ANALYSIS

:93.4430-3 Client Sample ID :LON-SS01-SW06

:WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Matrix	:WATER					P	-AX: (907) 561-	-5301
Methylene	Chloride	0.0010	U	mg/L	EPA 826	0 09/04	09/04	KWM
Napthalene		0.0011		mg/L	EPA 826		09/04	KWM
n-Propylbe			U	mg/L	EPA 826	.0 09/04	09/04	KWM
Styrene	-		U	mg/L	EPA 826	0 09/04	09/04	KWM
	achloroethane	0.0010	U	mg/L	EPA 826	09/04	09/04	KWM
	achloroethane	0.0010	U	mg/L	EPA 826		09/04	KWM
Tetrachlo		0.0010	U	mg/L	EPA 826	09/04	09/04	KWM
Toluene		0.0010	U	mg/L	EPA 826		09/04	KWM
	chlorobenzene	0.0010	U	mg/L	EPA 826		09/04	KWM
	chlorobenzene	0.0010	U	mg/L	EPA 826		09/04	KWM
	chloroethane	0.0010	U	mg/L	EPA 826		09/04	KWM
	chloroethane	0.0010	U	mg/L	EPA 826	50 09/04	09/04	KWM
Trichloro		0.0010	U	mg/L	EPA 826	50 09/04	09/04	KWM
	fluoromethane	0.0010	U	mg/L	EPA 826		09/04	KWM
	chloropropane	0.0010	U	mg/L	EPA 826	50 09/04	09/04	KWM
	methylbenzene	0.0010	U	mg/L	EPA 826	50 09/04	1 09/04	KWM
	methylbenzene	0.0014		mg/L	EPA 826		09/04	KWM
Vinyl Chl		0.0010	U	mg/L	EPA 826		1 09/04	KWM
p+m-Xylen		0.0011		mg/L	EPA 826		1 09/04	KWM
o-Xylene		0.0011		mg/L	EPA 826	50 09/04	1 09/04	KWM
Semivolat	ile Organics				EPA 827	70		
Phenol		0.010	U	mg/L	EPA 827	70 09/02	2 09/26	Krim
	oroethyl)ether	0.010	U	mg/L	EPA 827		2 09/26	
2-Chlorop		0.010	U	mg/L	EPA 827	70 09/02	2 09/26	Kwer
•	orobenzene	0.010	U	mg/L	EPA 827	70 09/0:	2 09/26	KWM
	orobenzene	0.010	U	mg/L	EPA 827	70 09/0:	2 09/26	KWM
Benzyl Al		0.010	U	mg/L	EPA 827		2 09/26	KWM
	orobenzene	0.010	U	mg/L	EPA 82		2 09/26	KWM
2-Methylp		0.010	U	mg/L	EPA 82		2 09/26	. KWM
	oroisopropyl)e	0.010	U	mg/L	EPA 82		2 09/26	KWM
4-Methylp		0.010	U	mg/L	EPA 82		2 09/26	KWM
	-di-n-Propylam	0.010	U	mg/L	EPA 82		2 09/26	KWM
Hexachlor		0.010	U	mg/L	EPA 82		2 09/26	KWM
Nitrobenz		0.010	U	mg/L	EPA 82		2 09/26	KWM
Isophoron		0.010	U	mg/L	EPA 82		2 09/26	KWM
2-Nitroph		0.010	U	mg/L	EPA 82		2 09/26	KWM
	hylphenol	0.010	U	mg/L	EPA 82		2 09/26	KWM
Benzoic A	cid	0.010	U	mg/L	EPA 82		2 09/26	KWM
bis(2-Chl	oroethoxy)Meth	0.010	U	mg/L	EPA 82		2 09/26	KWM
2,4-Dichl	orophenol	0.010	U	mg/L	EPA 82		2 09/26	KWM
1,2,4-Tri	chlorobenzene	0.010	U	mg/L	EPA 82		2 09/26	KWM
Naphthale	ene	0.010	U	mg/L	EPA 82		2 09/26	KWM
4-Chloroa	niline	0.010	U	mg/L	EPA 82		2 09/26	KWM
	obutadiene	0.010	U	mg/L	EPA 82	· =	2 09/26	KWM
	3-Methylphenol	0.010	U	mg/L	EPA 82		2 09/26	KWM
	aphthalene	0.010	U	mg/L	EPA 82		2 09/26	KWM
	cocyclopentadie	0.010	U	mg/L	EPA 82		2 09/26	KWM
	.chlorophenol	0.010	U	mg/L	EPA 82		2 09/26	KWM
	.chlorophenol	0.010	U	mg/L	EPA 82		2 09/26	KWM
2-Chloror	naphthalene	0.010	U	mg/L	EPA 82	09/0	2 09/26	KMM



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS Chemlab Ref.# :93.4430-3 Client Sample ID :LON-SS01-SW06 M

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

Client Sample ID :LON-SS01-	-SW06					EL: (907) 562 XX: (907) 561		
Matrix : WATER						FF	XX: (301) 201	1-5301
2-Nitroaniline	0.010	U	mg/L	EPA 8270		09/02	09/26	KWM
Dimethylphthalate	0.010	Ū	mg/L	EPA 8270		09/02		KWM
Acenaphthylene	0.010	U	mg/L	EPA 8270		09/02		KWM
2,6-Dinitrotoluene	0.010	U	mg/L	EPA 8270		09/02		KWM
3-Nitroaniline	0.010	U	mg/L	EPA 8270		09/02		KWM
Acenaphthene	0.010	U	mg/L	EPA 8270		09/02		KWM
2,4-Dinitrophenol	0.010	U	mg/L	EPA 8270		09/02		KWM
4-Nitrophenol	0.010	U	mg/L	EPA 8270		09/02		KWM
Dibenzofuran	0.010	U	mg/L	EPA 8270		09/02		KWM
2,4-Dinitrotoluene	0.010	U	mg/L	EPA 8270		09/02		KWM
Diethylphthalate	0.010	U	mg/L	EPA 8270		09/02		KWM
4-Chlorophenyl-Phenylet	0.010	U	mg/L	EPA 8270		09/02		KWM
Fluorene	0.010	Ü	mg/L	EPA 8270		09/02		KWM
4-Nitroaniline	0.010	U	mg/L	EPA 8270		09/02		KWM
4,6-Dinitro-2-Methylphe	0.010	U	mg/L	EPA 8270		09/02		KWM
n-Nitrosodiphenylamine	0.010	U	mg/L	EPA 8270		09/02	09/26	KWM
4-Bromophenyl-Phenyleth	0.010	U	mg/L	EPA 8270		09/02	09/26	KWM
Hexachlorobenzene	0.010	U	mg/L	EPA 8270		09/02	09/26	KWM
Pentachlorophenol	0.010	U	mg/L	EPA 8270		09/02	09/26	KWM
P <b>he</b> nanthrene	0.010	U	mg/L	EPA 8270		09/02		KWM
Anthracene	0.010	U	mg/L	EPA 8270		09/02		KWM
di-n-Butylphthalate	0.010	U	mg/L	EPA 8270		09/02		KWM
uoranthene	0.010	U	mg/L	EPA 8270		09/02		KWM
tene	0.010	U	mg/L	EPA 8270		09/02		KWM
butylbenzylphthalate	0.010	U	mg/L	EPA 8270		09/02		KWM
3,3-Dichlorobenzidine	0.010	Ü	mg/L	EPA 8270		09/02		KWM
Benzo(a)Anthracene	0.010	U	mg/L	EPA 8270		09/02		KWM
Chrysene	0.010	Ü	mg/L	EPA 8270		09/02		KWM
bis(2-Ethylhexyl)Phthal	0.010	U	mg/L	EPA 8270		09/02		KWM
di-n-Octylphthalate	0.010	U	mg/L	EPA 8270		09/02		KWM
Benzo(b)Fluoranthene	0.010	U	mg/L	EPA 8270			09/26	KWM
Benzo(k)Fluoranthene	0.010	U	mg/L	EPA 8270			09/26	KWM
Benzo(a)Pyrene	0.010	U	mg/L	EPA 8270			09/26	KWM
Indeno(1,2,3-cd)Pyrene	0.010	U	mg/L	EPA 8270			09/26	KWM
Dibenz(a,h)Anthracene	0.010	U	mg/L	EPA 8270			09/26	KWM
Benzo(g,h,i)Perylene	0.010	U	mg/L	EPA 8270		09/02	09/26	KWM
TOC, Nonpurgable				EPA 9060	n/a			
TOC Range	68.7-69.7		mg/L	EPA 9060	, a		09/13	CMR
TOC Concentration	69.2		mg/L	EPA 9060			09/13	CMR
							/	0.21
Residue, Non-Filterable	32		mg/L	EPA 160.2		09/02	09/02	GPP
Residue, Filterable (TDS)	1090		mg/L	EPA 160.1	500		09/10	RJK
,			<del>-</del>				• =	

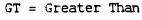
See Special Instructions Above See Sample Remarks Above

Undetected, Reported value is the practical quantification limit. LT = Less Than

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed





		100,0004,000,0	101 0001 000 \v ²
ICF ID	LON-SS01-S01	LON-SS01-S02-3	LON-SS01-S03
F&Bl Number	852	854	858
Sample Type	soil	soil	soil by
Date Received	8/27/93	8/27/93	8/27/93 <b>\</b>
% Dry Weight	97	97	95
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas			
JP-4	< 50	< 50	<50
Lube Oil	< 100	< 100	< 100
Diesel	< 50	S70 450	< 50
Spike Level			
Unknown Semi-volatile			
Pentacosane	96	74	91
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
alpha-BHC	< 0.01	< 0.01	< 0.01
beta-BHC	< 0.01	< 0.01	< 0.01
gamma-BHC	< 0.01	< 0.01	< 0.01
delta-BHC	< 0.01	< 0.01	< 0.01
Heptachlor	< 0.01	< 0.01	< 0.01
Aldrin	. 0.04	no ( ) sted < 0.01	not ≤0.01
Heptachlor Epoxide	Not 30 ted < 0.01 Validated < 0.01 < 0.01	yalidar < 0.01	Validated < 0.01
Endosulfan I	ر دانه المراز (0.01 × المراز (0.01	< 0.01	Jal. 6 < 0.01
DDE	< 0.01	< 0.01	< 0.01
Dieldrin	< 0.01	< 0.01	< 0.01
Endrin	< 0.01	< 0.01	< 0.01
Endosulfan II	< 0.01	< 0.01	< 0.01
DDD	< 0.01	< 0.01	< 0.01
Endrin Aldehyde	< 0.01	< 0.01	< 0.01
DDT	< 0.01	< 0.01	< 0.01
Endosulfan Sulfate	< 0.01	< 0.01	< 0.01
Endrin Ketone	< 0.01	< 0.01	< 0.01
Methoxy Chlor	< 0.1	<0.1	<0.1
Chlordane	<0.5	< 0.5	<0.5
Dibutyl Chlorendate	97	95	95
Spike Level	· ·	00	
Vol Sequence	#3-08/28/93 #4-08/29/9	93 #3-08/28/93, #4-08/29/9	3 #3-08/28/93, #4-08/29/93
CCI4	#6 00/20/00, # 1 00/20/	00 "0 00,20,00, " 1 00,20,00	3 " 6 66,26,66, "
TCA			
Benzene	< DAT 60.2J	< 0.02	< 0.02
TCE	<0.02 co.2T	\0.02	`.
Toluene	- Q-11240.2 J	< 0.02	< 0.02
PCE	30.02 -0.5	₹0.02	\ U.U2
	<0.02 40.2 T	< 0.02	< 0.02
Ethylbenzene	<0.02 20.27 <0.04 40.4J	< 0.04	<0.02
Xylenes	<70.04 x0.4V	<0.04 <2 √	<0.04 <2 \( \tau \)
Gasoline	×7 5201	< 2 V	< 2 9
Spike level	92	0.0	102
BFB	82	98	103

ICF ID	LON-SS01-S03	LON-SS01-S03	LON-SS01-S03
F&BI Number	858 dup	858 ms	858 msd
Sample Type	soil	soil	soil
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight			
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas			
JP-4	< 50		
Lube Oil	< 100		
Diesel	< 50	87	96
Spike Level		500	500
Unknown Semi-volatile			
Pentacosane	91	106	106
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
PCB 1221	< 0.1		
PCB 1232	< 0.1		
PCB 1016	< 0.1		
PCB 1242	< 0.1		
PCB 1248	< 0.1		
PCB 1254	< 0.1	96	97
PCB 1260	< 0.1		
Spike Level		10	10
Dibutyl Chlorendate	91	106	106
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			
CCI4			
TCA			
Benzene			
TCE			.k
Toluene			
PCE			
Ethylbenzene			
Xylenes			
Gasoline			
Spike level			
Spino is to:			

BFB

ICF ID F&BI Number	LON-SS01-S04 860	LON-SS01-S05 862	LON-SS01-S06 ile 864 Compa
Sample Type	soil	soil	soil by
Date Received	8/27/93	8/27/93	8/27/93 مرح على المراجعة
% Dry Weight	88	73	62
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas	#0 00/20/00	,, o o o, E o, o o	
	<50	< 50	< 80
JP-4	<100	<140	<150
Lube Oil		<70	£70 <86
Diesel	2500 <b>T</b>	< 70	×10 400
Spike Level			
Unknown Semi-volatile		0.0	90
Pentacosane	103	90	90
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
alpha-BHC	< 0.01	< 0.01	< 0.01
beta-BHC	< 0.01	< 0.01	< 0.01
gamma-BHC	< 0.01	< 0.01	< 0.01
delta-BHC	< 0.01	< 0.01	< 0.01
Heptachlor	< 0.01	<0.01 <0.01 <0.01 <0.01 <0.01	not ted < 0.01
Aldrin	.0.04	not 1<0.01	$\frac{no^{\frac{1}{2}}}{\sqrt{no^{\frac{1}{2}}}} < 0.01$
Heptachlor Epoxide	0.01 $0.01$ $0.01$ $0.01$	1:date0 < 0.01	√ ^M < 0.01
Endosulfan I	lidated < 0.01	√a" < 0.01	< 0.01
DDE	<0.01	< 0.01	< 0.01
Dieldrin	< 0.01	< 0.01	< 0.01
	< 0.01	< 0.01	< 0.01
Endrin	< 0.01	< 0.01	< 0.01
Endosulfan II	< 0.01	< 0.01	< 0.01
DDD Endrin Aldahada	< 0.01	< 0.01	< 0.01
Endrin Aldehyde	< 0.01	< 0.01	<0.01
DDT	< 0.01	< 0.01	< 0.01
Endosulfan Sulfate	< 0.01	< 0.01	<0.01
Endrin Ketone	<0.1	< 0.1	<0.1
Methoxy Chlor	< 0.5	< 0.5	< 0.5
Chlordane	103	90	90
Dibutyl Chlorendate	103	90	30
Spike Level	#2 00/20/02 #4 09/20/02	#2 00/20/02 #4 00/20/	93 #3-08/28/93, #4-08/29/93
Vol Sequence	#3-08/28/93, #4-06/29/93	3 #3-06/26/93, #4-06/29/	95 #5-00/20/55, #4 00/20/55
CCI4			
TCA		40.00	< 0.02
Benzene	<0.02 co.2T ≤0.02 co.2T	< 0.02	. < 0.02
TCE		0.00	·
Toluene	≤0.02 20.21	< 0.02	1.4 J
PCE		<u></u>	. ^ .
Ethylbenzene	€0.02 20.2 J	< 0.02	< 0.4
Xylenes	€0.04 20.4T	< 0.04	<0.8
Gasoline	2109 J	<2 丁	270 ブ
Spike level			
BFB	105	113	140

ICF ID	LON-SS01-S07-1	LON-SS01-S08-2.5	LON-SS01-S09
F&BI Number	866	868	870 ( pap 1 m
Sample Type	soil	soil	soil was
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	87	89	95
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas	,, 6 66,26,66	,, 0 00, 20, 00	
JP-4	< 60	< 60	<50
Lube Oil	<110	<110	<100
Diesel	5000J	160007	<50
Spike Level	30004		100
Unknown Semi-volatile			
Pentacosane	101	99	86
Sequence Date	101	00	00
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1242			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
alpha-BHC	<0.01	<0.01	<0.01
beta-BHC	< 0.01	< 0.01	<0.01
gamma-BHC	< 0.01	< 0.01	
delta-BHC	< 0.01	0.01 not <0.01 <0.01 <0.01	0.01 $0.01$ $0.01$ $0.01$ $0.01$ $0.01$
	∠ <0.01	Not -1 < 0.01	lidated < 0.01
Heptachlor Aldrin	not < 0.01 Validated < 0.01 < 0.01	alides #8 < 0.01	Jalian < 0.01
Heptachlor Epoxide	Jali dates < 0.01	<0.01	<0.01
Endosulfan l	< 0.01	< 0.01	<0.01
DDE	< 0.01	< 0.01	<0.01
Dieldrin	< 0.01	< 0.01	<0.01
Endrin	< 0.01	< 0.01	<0.01
Endosulfan II	< 0.01	< 0.01	<0.01
DDD	< 0.01	< 0.01	<0.01
Endrin Aldehyde	< 0.01	< 0.01	<0.01
DDT	< 0.01	< 0.01	<0.01
Endosulfan Sulfate	< 0.01	< 0.01	<0.01
Endrin Ketone	< 0.01	< 0.01	<0.01
Methoxy Chlor	<0.1	<0.1	<0.1
Chlordane	< 0.5	< 0.5	<0.5
Dibutyl Chlorendate	101	99	86
Spike Level	101	00	00
Vol Sequence	#3-08/28/93 #4-08/29/9	3 #3-08/28/93 #4-08/29/9	3 #3-08/28/93, #4-08/29/93
CCI4	" O OCI 20100, " + OCI 2010	0 110 00120100, 114 0012010	0 110 00120100, 114 00120100
TCA			
Benzene	< 0.2	< 0.2	< 0.02
TCE	<b>\0.2</b>	· 0.2	*:
Toluene	< 0.2	< 0.2	< 0.02
PCE	~0.2	<b>~ U.</b> Z	<b>\U.UZ</b>
	< 0.4	< 0.2	< 0.02
Ethylbenzene	< 0.8	< 0.2 < 0.8	<0.02
Xylenes Gasoline	100 diesel J	80 diesel T	<2 <b>T</b>
	TOO diesel J	on diesel 4	< 2 J
Spike level	107	1.40	1 1 1
BFB	137	140	111

ICF ID	LON-SS01-S10-4	LON-SS01-S10-4	LON-SS01-S10-4 872 ms
F&BI Number	872	872 dup	872 ms (57) 4 7 9 8 10 10 10 10 10 10 10 10 10 10 10 10 10
Sample Type	soil	soil	8/27/93 vo
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	96	"C 00/20/03	#6-08/28/93
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas	- 50	<b>. F</b> O	
JP-4	< 50	<50	
Lube Oil	<100	<100	87
Diesel	< 50	< 50	500
Spike Level			300
Unknown Semi-volatile	86	113	113
Pentacosane	86	#6-08/28/93	#6-08/28/93
Sequence Date		*0-00/20/33 <0.1	# 0 00/20/00
PCB 1221		<0.1	
PCB 1232		<0.1	
PCB 1016		<0.1	
PCB 1242		<0.1	
PCB 1248		<0.1	105
PCB 1254		<0.1	100
PCB 1260		<b>\(\frac{1}{0.1}\)</b>	10
Spike Level		96	113
Dibutyl Chlorendate		30	
Sequence Date			
alpha-BHC beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			•
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3-08/28/93, #4-08/29/9	03 #3-08/28/93, #4-08/29/9	3 #3-08/28/93, #4-08/29/93
CCI4			
TCA			
Benzene	< 0.02	< 0.02	<b>74</b> ∵
TCE			
Toluene	< 0.02	< 0.02	93
PCE			440
Ethylbenzene	< 0.02	<0.02 J	119
Xylenes	< 0.04	<0.047	114
Gasoline	<2 ₮	<2 J	4
Spike level		4.4.4	1
BFB	102	114	131

ICF ID	LON-SS01-S10-4	LON-SS01-S11	LON-SS01-S12-2.5
F&Bl Number	872 msd	874	876 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Sample Type	soil	soil	3011
Date Received	8/27/93	8/27/93	0/2//30
% Dry Weight		96	95
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas			
JP-4		< 50	< 50
Lube Oil		<100	< 100
Diesel	85	3000丁	2300 丁
Spike Level	500		
Unknown Semi-volatile			
Pentacosane	124	98	100
Sequence Date	#6-08/28/93		
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254	96		
PCB 1260			
Spike Level	10		
Dibutyl Chlorendate	125		
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			•
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3-08/28/93, #4-08/29/93	#3-08/28/93, #4-08/29/9	3 #3-08/28/93, #4-08/29/93
CCI4			
TCA			
Benzene	106	< 0.02	< 0.02
TCE			*:
Toluene	98	< 0.2	10 J
PCE		_	
Ethylbenzene	104	0.7 ブ	7 T
Xylenes	98	10 J	32 <b>T</b>
Gasoline		80 T	1000 diesel T
Spike level	1		
BFB	105	110	92

ICF ID	LON-SS01-S13-01	LON-SS01-S14-03	LON-SS01-S15
F&BI Number	878	880	882
Sample Type	soil	soil	soil 10'
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	74	100	58
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas			
JP-4	< 70	< 50	< 70
Lube Oil	< 140	< 100	< 170
Diesel	1500₹	< 50	6300ブ
Spike Level			
Unknown Semi-volatile			
Pentacosane	138	92	110
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			4
Aldrin Heptachlor Epoxide			•
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			•
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3-08/28/93, #4-08/29/9	3 #3-08/28/93, #4-08/29/93	#3-08/28/93, #4-08/29/93
CCI4			
TCA			
Benzene	< 0.02	< 0.02	< 0.04
TCE			
Toluene	< 0.02	< 0.02	< 0.04
PCE	0.00	-0.00	-0.04
Ethylbenzene	< 0.02	< 0.02	<0.04
Xylenes	< 0.04	< 0.04	< 0.08
Gasoline	580 diesel√	<2 T	<4
Spike level	4 1 "7	110	120
BFB	117	118	129

ICF ID	LON-SS01-2S16-1	LON-SS01-2S17-1	LON-SS01-2S18-1
F&BI Number	1780	1781	1782
Sample Type	soil	soil	soil
Date Received	9/4/93	9/4/93	9/4/93
% Dry Weight	90	75	91
Sequence Date	#5-09/08/93	#5-09/08/93	#5-09/08/93
Leaded Gas			
JP-4	< 60	< 70	< 60
Lube Oil	<120	<140	<120
Diesel	<60	<70	<60
Spike Level	< 00	< 70	<b>~00</b>
Unknown Semi-volatile	83	81	68
Pentacosane	03	01	00
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			
CCI4			
TCA			
Benzene			
TCE			*
Toluene			
PCE			
Ethylbenzene			
Xylenes			
Gasoline			
Spike level			

BFB

		**************************************		
107.15	LON CCO1 2C10	LON-SS01-2S20	ان مرم LON-SS01-2S21-1.5	<i>10</i>
ICF ID	LON-SS01-2S19 1783	1784	1786	
F&BI Number	soil	soil	soil by	95
Sample Type Date Received	9/4/93	9/4/93	9/4/93 p/3	ĺ
% Dry Weight	76	83	65	ĺ
	#5-09/08/93	#5-09/08/93	#5-09/08/93	<b>\</b>
Sequence Date Leaded Gas	#3-03/06/33	#3 03/00/30	# 0 00/00/00	,
JP-4	< 70	<60	< 70	ĺ
Lube Oil	<140	<120	<140	ĺ
Diesel	7500 6600 J	<60	£70280	ĺ
Spike Level	, , , , , ,			
Unknown Semi-volatile				ĺ
Pentacosane	82	85	73	
Sequence Date				
PCB 1221				ĺ
PCB 1232				
PCB 1016				
PCB 1242				
PCB 1248				
PCB 1254				
PCB 1260				
Spike Level				
Dibutyl Chlorendate				
Sequence Date				
alpha-BHC				
beta-BHC				
gamma-BHC				
delta-BHC				ĺ
Heptachlor				
Aldrin				
Heptachlor Epoxide			•	•
Endosulfan I				
DDE				
Dieldrin				ĺ
Endrin				ĺ
Endosulfan II				ĺ
DDD				ĺ
Endrin Aldehyde				
DDT				
Endosulfan Sulfate				
Endrin Ketone				
Methoxy Chlor				
Chlordane				
Dibutyl Chlorendate				
Spike Level				
Vol Sequence			#1&2-09/07/93	
CCI4			< 0.3	
TCA			< 0.3	
Benzene			<0.03	
TCE			< 0.06	
Toluene			< 0.03	
PCE			<0.2	
Ethylbenzene			< 0.05	
Xylenes			<0.1	,
Gasoline			<2 J	
Spike level				
BFB			92	

ICF ID	LON-SS01-SD01	LON-SS01-SD02	LON-SS01-SD03 giled
F&BI Number	884	886	888 (M) 49 m)
Sample Type	soil	soil	soil by 5.95
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	81	85	77
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas	#0 00/20/33	#0-00/28/33	#0-00/28/93
JP-4	<60	<60	<60
Lube Oil	<120	<120	<120
Diesel	£60120J	180 J	<b>4</b> 280
Spike Level	200,200	100 0	- 200
Unknown Semi-volatile			
Pentacosane	97	99	96
Sequence Date			
PCB 1221			;
PCB 1232			:
PCB 1016			İ
PCB 1242			
PCB 1248			i i
PCB 1254			
PCB 1260			İ
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			-
Endrin Ketone		Floursed PQU's due to	
Methoxy Chlor	1	Elevated PQL's due to arry over interforence	_
Chlordane Dibutyl Chloropdate	a	arry over in restaurce	
Dibutyl Chlorendate Spike Level			<b>)</b> ,
Vol Sequence	#1&2-08/31/93		#284.00/21/02
CCI4	#102-00/31/33		#3&4-08/31/93
TCA			1
Benzene	< 0.4	< 0.4	< 0.4
TCE	<b>\U.</b> 4	<b>₹0.4</b>	<∪.4
Toluene	< 0.4	< 0.4	< 0.4
PCE	<b>\U.</b> T	<b>~0.4</b>	<b>~</b> 0.4
Ethylbenzene	< 0.4	< 0.4	< 0.4
Xylenes	< 0.8	< 0.8	<0.4
Gasoline	100 diesel√	180 diesel	<0.8
Spike level	100 diesei 4	100 diesei	~2
BFB	143	140	121
51 0	143	140	126

	1 ON CCO1 CD01	LON-SS01-SW01	انمیر LON-SS01-SW01	ed
ICF ID	LON-SS01-SD04 890	917	918	1
F&BI Number	soil	water	water	5,9.
Sample Type		8/27/93	8/27/93	
Date Received	8/27/93	0/27/93	0/27/00	
% Dry Weight	82	#E 09/29/02	4	
Sequence Date	#6-08/28/93	#5-08/28/93	•	
Leaded Gas	0.0	- 200		
JP-4	<60	< 200		
Lube Oil	<120	< 2000		
Diesel	≤60270J	£200 21000		
Spike Level				
Unknown Semi-volatile				
Pentacosane	98	50		
Sequence Date				
PCB 1221				
PCB 1232				
PCB 1016				
PCB 1242				
PCB 1248				
PCB 1254				
PCB 1260				
Spike Level				
Dibutyl Chlorendate				
Sequence Date				
alpha-BHC				
beta-BHC				
gamma-BHC				
delta-BHC				
Heptachlor			_	
Aldrin			4	
Heptachlor Epoxide			`	
Endosulfan I				
DDE				
Dieldrin				
Endrin				
Endosulfan II				
DDD				
Endrin Aldehyde				
DDT				
Endosulfan Sulfate				
Endrin Ketone				
Methoxy Chlor				
Chlordane				
Dibutyl Chlorendate				
Spike Level	#28 4 08/20/03		#3-08/28/93, #4-08/29/93	
Vol Sequence	#3&4-08/29/93		#5-06/20/55, #+ 06/25/50	
CCI4				
TCA	-0.4		2	
Benzene	< 0.4		· ·	
TCE	. 0. 4		<1	
Toluene	< 0.4		< 1	
PCE			<b>. 1</b>	_
Ethylbenzene	< 0.4		<1	
Xylenes	<0.8		<2	
Gasoline	<2		<100 J	
Spike level				
BFB	116		91	

ICF ID	LON-SS01-SW02	LON-SS01-SW02	LON-SS01-SW03
F&BI Number	921	922	925
Sample Type	water	water	water value
Date Received	8/27/93	8/27/93	8/27/93 10
% Dry Weight	0/27/33	0/2//93	0/27/33 (0
Sequence Date	#5-08/28/93		#5-08/28/93
1	#3-06/26/93		#9-06/26/93
Leaded Gas	. 200		*200
JP-4	< 200		< 200
Lube Oil	< 2000		< 2000
Diesel	£200 21000		<200 c/000
Spike Level			
Unknown Semi-volatile	F.0		50
Pentacosane	50		50
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence		#3-08/28/93, #4-08/29/93	
CCI4			
TCA			
Benzene		<1	
TCE		*.	
Toluene		<1	
PCE			
Ethylbenzene		<1	
Xylenes		<2	
Gasoline		<100 J	
Spike level		00	
BFB		88	

			,
ICF ID	LON-SS01-SW03	LON-SS01-SW04	LON-SS01-SW04 .led
F&BI Number	928	929	932
Sample Type	water	water	water V 195
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight			· · · · · · · · · · · · · · · · · · ·
Sequence Date		#5-08/28/93	
Leaded Gas			
JP-4		< 200	
Lube Oil		< 2000	
Diesel		5200 - 1000	
Spike Level		•	
Unknown Semi-volatile			
Pentacosane		50	
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	##		#2 00/00/02 #4 00/00/02
Vol Sequence	#3-08/28/93, #4-08/29/93		#3-08/28/93, #4-08/29/93
CCI4			
TCA			4
Benzene	<1		1
TCE			
Toluene	<1		1
PCE			
Ethylbenzene	<1		<1
Xylenes	< 2		<2
Gasoline	<100ブ		<100 ブ
Spike level			
BFB	90		72

			-
ICF ID	LON-SS01-SW05	LON-SS01-SW06	LON-SS01-SW06 11ed 940 1074 1975 1975
F&Bl Number	933	937	940 (01/44/1)
Sample Type	water	water	water by 5,93
Date Received	8/27/93	8/27/93	8/27/93 P
% Dry Weight			
Sequence Date	#5-08/28/93	#5-08/28/93	
Leaded Gas			
JP-4	< 200	< 200	
Lube Oil	< 2000	< 2000	
Diesel	5200 c/000	<200 ckeo	
Spike Level			
Unknown Semi-volatile			
Pentacosane	60	50	
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			#3-08/28/93, #4-08/29/93
CCI4			#3-00/20/33, #4-00/23/33
TCA			
Benzene			1
TCE			:
Toluene			1
PCE			ı
Ethylbenzene			1 丁
Xylenes			1 J 2 J
Gasoline			2 V <100 J
Spike level			< 100 <b>u</b>
BFB			88
ט וט			00

ANALYTICAL DATA SHEETS FOR THE DRUM STORAGE AREA (ST02)



12.3 11.5

#### COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# Client Sample ID :LON-ST02-S02

:93.4425-6

Matrix

:SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

WORK Order

:70211

Ordered By Project Name :RAY MORRIS :DEW LINE

Report Completed :10/27/93

:08/26/93 @ 15:40 hrs.

Project#

:LONELY

Collected Received

:08/29/93 @ 12:45 hrs.

PWSID

:UA

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z. Qualities Communicato

		QC		L	Allowable	Ext.	Anal	
Parameter	Results		Units	Method	Limits	Date	Date	Init
Volatile Organics				EPA 8260				
Benzene	0.020	U	mg/Kg	EFA 0200	<del>-</del> \	00/20	00/12	
Bromobenzene	0.020	บ	mg/Kg	EPA 8260 (7 EPA 8260 )	1J-A . (		09/13	KWM
Bromochloromethane	0.020	Ü	mg/Kg	EPA 8260			09/13 09/13	KWM
Bromodichloromethane	0.020	บ	mg/Kg	EPA 8260			09/13	KWM
Bromoform	0.020	บ	mg/Kg	EPA 8260			09/13	KWM
Bromomethane	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
n-Butylbenzene	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
ec-Butylbenzene	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
ert-Butylbenzne	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM KWM
Carbon Tetrachloride	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
Chlorobenzene	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
Chloroethane	0.020	บั	mg/Kg	EPA 8260			09/13	KWM
Chloroform	0.020	บั	mg/Kg	EPA 8260			09/13	KMM
Chloromethane	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
2-Chlorotoluene	0.020	Ü	mg/Kg	EPA 8260			09/13	KMH
4-Chlorotoluene	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
Dibromochloromethane	0.020	บ	mg/Kg	EPA 8260			09/13	KWM
12Dibromo3Chloropropane	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
1,2-Dibromoethane	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
Dibromomethane	0.020	Ū	mg/Kg	EPA 8260			09/13	KWH
1,2-Dichlorobenzene	0.020	Ū	mg/Kg	EPA 8260			09/13	KWM
1,3-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,4-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
Dichlorodifluoromethane	0.020	U	mg/Kg	EPA 8260	•		09/13	KWM
1,1-Dichloroethane	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,2-Dichloroethane	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,1-Dichloroethene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
cis-1,2-Dichloroethene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
trans1,2-Dichloroethene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,2-Dichloropropane	0.020	Ü	mg/Kg	EPA 8260			09/13	KWM
1,3-Dichloropropane	0.020	U	mg/Kg	EPA 8260			09/13	KWM
2,2-Dichloropropane	0.020	U	mg/Kg	EPA 8260	*:		09/13	KWM
1,1-Dichloropropene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
Ethylbenzene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
Hexachlorobutadiene	0.020	ប	mg/Kg	EPA 8260		08/30		KWM
Isopropylbenzene	0.020	U	mg/Kg	EPA 8260	_		09/13	KWM
-Isopropyltoluene	0.020	U	mg/Kg	EPA 8260⊀		08/30		KWM
					will .			



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## COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET :93.4425-6 Chemlab Ref.# EPA 8260(J)-4.1 OR EPA 8260 ANCHORAGE, AK 99518 Client Sample ID :LON-ST02-S02 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :SOIL 08/30 09/13 0.020 Methylene Chloride KWM mq/Kq 08/30 09/13 EPA 8260 KWM 0.020 U Napthalene mg/Kg 0.020 08/30 09/13 KWM EPA 8260 n-Propylbenzene U ma/Ka 08/30 09/13 EPA 8260 Styrene 0.020 U KWM ma/Ka 08/30 09/13 1112-Tetrachloroethane 0.020 EPA 8260 KWM H mq/Kq 08/30 09/13 1122-Tetrachloroethane 0.020 U EPA 8260 KWM mg/Kg 08/30 09/13 EPA 8260 KWM Tetrachloroethene 0.020 U mg/Kg 08/30 09/13 EPA 8260 KWM Toluene 0.020 11 mg/Kg 08/30 09/13 EPA 8260 KWM 1.2.3-Trichlorobenzene 0.020 mg/Kg 08/30 09/13 1,2,4-Trichlorobenzene EPA 8260 KWM 0.020 mq/Kq 1,1,1-Trichloroethane EPA 8260 / 08/30 09/13 0.020 KWM mq/Kq 1,1,2-Trichloroethane EPA 8260 / 08/30 09/13 KWM 0.020 U mg/Kg Trichloroethene 08/30 09/13 0.020 EPA 8260 | KWM U mg/Kg 08/30 09/13 EPA 8260 | KWM Trichlorofluoromethane 0.020 U mg/Kg EPA 8260 08/30 09/13 1,2,3-Trichloropropane KWM 0.020 U mg/Kg EPA 8260 / 08/30 09/13 KWM 1.2.4-Trimethylbenzene 0.020 U mg/Kg 08/30 09/13 1,3,5-Trimethylbenzene EPA 8260 | KWM 0.020 U mq/Kq EPA 8260 | 08/30 09/13 Vinyl Chloride 0.020 U ma/Ka KWM 08/30 09/13 p+m-Xylene 0.020 11 mq/Kq EPA 8260 KWH EPA 8260™ 08/30 09/13 KWM o-Xylene 0.020 mq/Kq **EPA** 8270 Semivolatile Organics 09/09 10/03 Phenol 0.220 EPA 8270 11 mg/Kg EPA 8270 09/09 10/03 MTT bis(2-Chloroethyl)ether 0.220 U mg/Kg 0.220 mg/Kg EPA 8270 09/09 10/03 MIT 2-Chlorophenol U 09/09 10/03 1.3-Dichlorobenzene 0.220 U EPA 8270 HTT mg/Kg 09/09 10/03 1.4-Dichlorobenzene 0.220 U mg/Kg EPA 8270 MTT EPA 8270(U) E.1 09/09 10/03 1.01 2.00 Ue Benzyl Alcohol mg/Kg MIT 09/09 10/03 0.220 EPA 8270 MTT 1,2-Dichlorobenzene mg/Kg 09/09 10/03 EPA 8270 MTT 2-Methylphenol 0.220 U mg/Kg 09/09 10/03 bis(2-Chloroisopropyl)e 0.220 EPA 8270 MTT U mg/Kg EPA 8270 09/09 10/03 MTT 4-Methylphenol 0.220 U mg/Kg EPA 8270 09/09 10/03 n-Nitroso-di-n-Propylam 0.220 MIT 11 mg/Kg EPA 8270 09/09 10/03 MTT 0.220 Hexachloroethane U mg/Kg EPA 8270 09/09 10/03 MTT Nitrobenzene 0.220 U mg/Kg Isophorone 0.220 U mg/Kg EPA 8270 09/09 10/03 MTT 2-Nitrophenol 0.220 mg/Kg EPA 8270 09/09 10/03 MIT 09/09 10/03 2,4-Dimethylphenol 0.220 mg/Kg EPA 8270 MIT 09/09 10/03 Benzoic Acid 0.220 mq/Kq EPA 8270 MIT 09/09 10/03 EPA 8270 MIT bis(2-Chloroethoxy)Meth 0.220 U mg/Kg 0.220 EPA 8270 09/09 10/03 MTT 2,4-Dichlorophenol U mg/Kg 09/09 10/03 EPA 8270 MIT 1,2,4-Trichlorobenzene 0.220 13 mg/Kg 09/09 10/03 EPA 8270 MTT 0.220 U mg/Kg Naphthalene EPA 8270 09/09 10/03 MTT 0.220 U mg/Kg 4-Chloroaniline EPA 8270 09/09 10/03 MTT Hexachlorobutadiene 0.220 mq/Kq 09/09 10/03 MIT 4-Chloro-3-Methylphenol 0.220 mg/Kg EPA 8270 09/09 10/03 MTT 2-Methylnaphthalene 0.220 mg/Kg EPA 8270 09/09 10/03 0.220 **EPA** 8270 MTT Hexachlorocyclopentadie U mg/Kg 09/09 10/03 MTT EPA 8270 2,4,6-Trichlorophenol 0.220 U mg/Kg **EPA 8270** 09/09 10/03 0.220 U 2,4,5-Trichlorophenol mg/Kg 09/09 10/03 0.220 U EPA 8270 2-Chloronaphthalene mg/Kg



ENVIRONMENTAL LABORATORY SERVICES

NOE 1904	··	DEDC	DT of ANA	VCTC				
Chemlab Ref.# :93.4425-6		REPL	ORT of ANA	L1212			5622 0	STREET
Client Sample ID :LON-ST02-S02					()	11/2	ANCHORAGE. A	K 99518
Matrix :SOIL					- 120	alfreis / Com	人 TEL: (907) st	62-2343
.5011		^		,	un	the often for the	MUS FAX: (907)	61-5301
2-Nitroaniline				nents		V /		
	0.220	U	mg∕Kg		8270	′	09/09 10/03	MTT
Dimethylphthalate	0.220	U	mg/Kg		8270		09/09 10/03	MTT
Acenaphthylene	0.220	Ü	mg/Kg		8270		09/09 10/03	MTT
2,6-Dinitrotoluene	0.220	U	<b>mg∕K</b> g	EPA	8270		09/09 10/03	MTT
3-Nitroaniline	0.220	U	<b>mg∕K</b> g	EPA	8270		09/09 10/03	MTT
Acenaphthene	0.220	U	ng/Kg	EPA	8270		09/09 10/03	MTT
2,4-Dinitrophenol	0.220	U	mg/Kg	EPA	8270		09/09 10/03	HIT
4-Nitrophenol	0.220	U	mg/Kg	EPA	8270		09/09 10/03	MTT
Dibenzofuran	0.220	U	mg/Kg		8270		09/09 10/03	MTT
2,4-Dinitrotoluene	0.220	U	mg/Kg		8270		09/09 10/03	MTT
Diethylphthalate	0.220	U	mg/Kg		8270		09/09 10/03	
4-Chlorophenyl-Phenylet	0.220	Ü	mg/Kg		8270		09/09 10/03	MTT
Fluorene	0.220	Ü	mg/Kg		8270		09/09 10/03	MTT
4-Nitroaniline	0.220	Ü	mg/Kg		8270		09/09 10/03	HTT
4,6-Dinitro-2-Methylphe	0.220	Ü	mg/Kg		8270		09/09 10/03	MTT
n-Nitrosodiphenylamine	0.220	Ü	mg/Kg		8270		09/09 10/03	MTT
4-Bromophenyl-Phenyleth	0.220	Ü	mg/Kg				09/09 10/03	MTT
Hexachlorobenzene	0.220	Ü			8270		09/09 10/03	MIT
Pentachlorophenol	0.220	_	mg/Kg		8270		09/09 10/03	MTT
Phenanthrene	0.220	U U	mg/Kg		8270		09/09 10/03	MTT
Anthracene		-	mg/Kg		8270		09/09 10/03	MTT
di-n-Butylphthalate 0,548.	0.220	'n.	mg/Kg	EPA	8270	(1) F 1	09/09 10/03	MIT
Tluoranthene			mg/Kg	EPA	8270 (	u) - E. I	09/09 10/03	MIT
yrene	0.220	U	mg/Kg		8270		09/09 10/03	HTT
Butylbenzylphthalate	0.220	U	mg/Kg		8270		09/09 10/03	MTT
3 3 Dichlorphonidie	0.220	U	mg/Kg		8270		09/09 10/03	MTT
3,3-Dichlorobenzidine	0.220	U	mg/Kg		8270		09/09 10/03	MTT
Benzo(a)Anthracene	0.220	U	mg/Kg		8270		09/09 10/03	MTT
Chrysene	0.220	$U_{v}$	<b>mg/K</b> g		8270		09/09 10/03	MTT
bis(2-Ethylhexyl)Phthal 0,247		60	mg/Kg	EPA	8270(u	()- E. <b>L</b>	09/09 10/03	MTT
di-n-Octylphthalate	0.220	U	mg/Kg	EPA	8270		09/09 10/03	MTT
Benzo(b)Fluoranthene	0.220	U	mg/Kg	EPA	8270		09/09 10/03	HTT
Benzo(k)Fluoranthene	0.220	U	mg/Kg	EPA	8270		09/09 10/03	MTT
Benzo(a)Pyrene	0.220	U	mg/Kg		8270		09/09 10/03	HTT
<pre>Indeno(1,2,3-cd)Pyrene</pre>	0.220	U	mg/Kg		8270		09/09 10/03	MTT
Dibenz(a,h)Anthracene	0.220	U	mg/Kg		8270		09/09 10/03	MTT
Benzo(g,h,i)Perylene	0.220	U	mg/Kg		8270		09/09 10/03	MTT
							03/03 10/03	1111
Sample Preparation			F	TPA 305	0 Dige	c†		
Total Metals Analysis			-		- -			
ICP Screen, ICF				F	<b>P</b> A	n/a		
Aluminum	3000		mg/Kg		6010	11/ a	08/31 09/02	<b>1</b> 100
Antimony	54	U	mg/Kg		6010			DFL
Arsenic	54	ŭ	mg/Kg		6010		08/31 09/02	DFL
Barium	92	Ü	mg/Kg		6010		08/31 09/02	DFL
Beryllium	2.7	U	mg/Kg		6010		08/31 09/02	DFL
Cadmium	2.7	บ					08/31 09/02	DFL
Calcium	38000	_	mg/Kg		6010	:	08/31 09/02	DFL
Chromium	3.0	,	Img/KgJ.2		6010		08/31 09/02	DFL
Cobalt	5.4		mg/Kg		6010		08/31 09/02	DFL
Copper		U	mg/Kg		6010		08/31 09/02	DFL
ron	27	U	mg/Kg		6010		08/31 09/02	DFL
2011	10000		mg/Kg	EPA	6010	2	08/31 09/02	DFL
			No land	194		Cate .		
		$\rho \iota \iota$	change by 2/1	y		3-15-94		
		1				2-15		
		17		1		<i>y</i> .		
<b>§56</b>			comple		1.16.44			
	Mem	per of	the SGS Group	(Société (	Générale d	e Surveillance)		



ENVIRONMENTAL LABORATORY SERVICES

5 408 1908		1	REPOR	RT of ANALY	SIS			5633 B ST	REST
Chemlab Ref.#	:93.4425-6						ANCH	ORAGE, AK	
Client Sample ID	:LON-ST02-S02						•	TEL: (907) 562	1.2343
Matrix	:SOIL			. f.			F	FAX: (907) 561	1-5301
natiix	.5012		هينا	lifter_					
Lead		54	U	mg/Kg	EPA	6010	08/31	09/02	DFL
Magnesium		22000	_ ~	mg/Kg J, Z	EPA	6010	08/31	09/02	DEL
_		110	7	mg/Kg		6010	08/31	09/02	DFL
Manganese		2.7	U	mg/Kg		6010	·	09/02	DFL
Molybdenum			U			6010		09/02	DFL
Nickel		5.1		mg/Kg		6010		09/06	DLG
Potassium		460		<b>mg∕K</b> g			_ · · ·	09/06	DLG
Selenium		54	U	mg/Kg _		6010	,	•	
Silver		27	UR	mg/Kg J∶\		6010	•	09/06	DLG
Sodium		280		mg/Kg		6010	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	09/06	DLG
Thallium		0.27	U	mg/Kg	EPA	7841	- •	09/01	KAW
Vanadium		22	•	mg/Kg		6010	08/31	09/02	DFL
		13		mg/Kg		6010	08/31	09/02	DFL
Zinc		13		mal wa		0010	00,00		

All chy s. L 2/16/94

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

hemlab Ref.# :93.4423-1 lient Sample ID :LON ST02 SW01

Matrix

:ICF KAISER ENGINEERING

:WATER

WORK Order :70207

Report Completed :09/30/93

Collected :08/26/93 @ 15:20 hr Received :08/29/93 @ 12:45 hr

5633 B STREET ANCHORAGE, AK 99518

TEL: (907) 562-2343

FAX: (907) 561-5301

Technical Director: STEPHEN G. EDE

Client Name Ordered By

Project Name

:RAY MORRIS :DEW LINE : LONELY

Project# PWSID

:UA

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., AND S.S.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCt
Bromobenzene	0.0010	U	mg/L	EPA 8260			09/03	MCI
Bromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCh
Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCF
Bromoform	0.0010	U	mg/L	EPA 8260		09/03	60/60	MCM
Bromomethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03		MCH
sec-Butylbenzene	0.0010	U	mg/L	EFA 8260			09/03	MCM
tert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03		MCM
Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/03		MCM
Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
Chloroethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
Chloroform	0.0010	U	mg/L	EPA 8260		09/03		MCM
Chloromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		MCM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		MCM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,2-Dichloroethane	0.0019		mg/L	EPA 8260		09/03		MCM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
Ethylbenzene	0.0010	U	mg/L	EPA 8260	.•	09/03		MCM
Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03		MCM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM





ENVIRONMENTAL LABORATORY SERVICES



		REEK	ORT of ANA	LACIC			
Chemlab Ref.# :93.4423-1		1/14/	MI OI ANA	51313		5633 B ST	
Client Sample ID :LON ST02 SW	10.1				→ VI	CHORAGE, AK TEL 1907) 562	
Matrix :WATER						FAX (907) 56	
Methylene Chloride	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC
Napthalene	0.0010	U	mg/L	EPA 8260		3 09/03	MC
n-Propylbenzene	0.0010	U	mg/L	EPA 8260		3 09/03	MC
Styrene	0.0010	U	mg/L	EPA 8260		3 09/03	MC
1112-Tetrachloroethane	0.0010	U	mg/L	EPA 8260		3 09/03	MC
1122-Tetrachloroethane	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC
Tetrachloroethene	0.0010	U	mg/L	EPA 8260		3 09/03	MC
Toluene	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC
1,2,3-Trichlorobenzene	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC
1,2,4-Trichlorobenzene	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC
1,1,1-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC
1,1,2-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC
Trichloroethene	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC
Trichlorofluoromethane	0.0010	U	mg/L	EPA 8260		3 09/03	MC
1,2,3-Trichloropropane	0.0010	U	mg/L	EPA 8260		3 09/03	MC
1,2,4-Trimethylbenzene	0.0010	U	mg/L	EPA 8260		3 09/03	MC
1,3,5-Trimethylbenzene	0.0010	U	mg/L	EPA 8260		3 09/03	MC
Vinyl Chloride	0.0010	U	mg/L	EPA 8260		3 09/03	MC.
p+m-Xylene	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC:
o-Xylene	0.0010	U	mg/L	EPA 8260	09/0	3 09/03	MC:
							-
Semivolatile Organics				EPA 8270		•	
Phenol	0.030	U	mg/L	EPA 8270		2 09/25	TIT
bis(2-Chloroethyl)ether	0.030	U	mg/L	EPA 8270		2 09/25	MT
2-Chlorophenol	0.030	U	mg/L	EPA 8270		2 09/25	MT
1,3-Dichlorobenzene	0.030	U	mg/L	EPA 8270		2 09/25	MT
1,4-Dichlorobenzene	0.030	U	mg/L	EPA 8270		2 09/25	MT
Benzyl Alcohol	0.030	U	mg/L	EPA 8270		2 09/25	MTT
1,2-Dichlorobenzene	0.030	U	mg/L	EPA 8270		2 09/25	MT
2-Methylphenol	0.030	U	mg/L	EPA 8270		2 09/25	MTT
bis(2-Chloroisopropyl)e	0.030	U	mg/L	EPA 8270		2 09/25	MTT
4-Methylphenol	0.030	U	mg/L	EPA 8270		2 09/25	MTI
n-Nitroso-di-n-Propylam	0.030	U	mg/L	EPA 8270		2 09/25	MTI
Hexachloroethane	0.030	U	mg/L	EPA 8270		2 09/25	MTI
Nitrobenzene	0.030	U	mg/L	EPA 8270		2 09/25	MTI
Isophorone	0.030	U	mg/L	EPA 8270		2 09/25	MTI
2-Nitrophenol	0.030	U	mg/L	EPA 8270		2 09/25	MTI
2,4-Dimethylphenol	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
Benzoic Acid	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
bis(2-Chloroethoxy)Meth	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
2,4-Dichlorophenol	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
1,2,4-Trichlorobenzene	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
Naphthalene	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
4-Chloroaniline	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
Hexachlorobutadiene	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
4-Chloro-3-Methylphenol	0.030	Ü	mg/L	EPA 8270		2 09/25	MTT
2-Methylnaphthalene	0.030	U	mg/L	EPA 8270		2 09/25	MTT
Hexachlorocyclopentadie	0.030	U	mg/L	EPA 8270		2 09/25	MTT
2,4,6-Trichlorophenol	0.030	U	mg/L	EPA 8270		2 09/25	MTT
2,4,5-Trichlorophenol	0.030	U	mg/L	EPA 8270		2 09/25	TT
2-Chloronaphthalene	0.030	U	mg/L	EPA 8270	09/0	2 09/25	TT



# COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

		رسار	200 6 200				
Chemlab Ref.# :93.4423	- 1	REM	ORT of ANA	LYSIS		5633 B ST ANCHORAGE, AK	
Client Sample ID :LON STO						TEL. (907) 56	
Matrix :WATER						FAX (907) 56	1-5301
2-Nitroaniline	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Dimethylphthalate	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Acenaphthylene	0.030	U	mg/L	EPA 8270		09/02 09/25	MT
2,6-Dinitrotoluene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
3-Nitroaniline	0.030	U	mg/L	EPA 8270		09/02 09/25	MT
Acenaphthene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTI
2,4-Dinitrophenol	0.030	U	mg/L	EPA 8270		09/02 09/25	MTI
4-Nitrophenol	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Dibenzofuran	0.030	Ü	mg/L	EPA 8270		09/02 09/25	TTM
2,4-Dinitrotoluene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Diethylphthalate	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
4-Chlorophenyl-Phenylet		U	mg/L	EPA 8270		09/02 09/25	MTT
Fluorene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
4-Nitroaniline	0.030	Ü	mg/L	EPA 8270		09/02 09/25	MTT
4,6-Dinitro-2-Methylphe		Ü	mg/L	EFA 8270		09/02 09/25	MTT
n-Nitrosodiphenylamine	0.030	Ü	mg/L	EPA 8270		09/02 09/25	MTT
4-Bromophenyl-Phenyleth Hexachlorobenzene		U	mg/L	EPA 8270		09/02 09/25	MTT
Pentachlorophenol	0.030	U U	mg/L	EPA 8270		09/02 09/25	MTT
Phenanthrene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT MTT
Anthracene	0.030	Ü	mg/L	EPA 8270 EPA 8270		09/02 09/25 09/02 09/25	MTT
di-n-Butylphthalate	0.030	Ü	mg/L mg/L	EPA 8270		09/02 09/25	MTT
Fluoranthene	0.030	Ü	mg/L	EPA 8270		09/02 09/25	MTT
Pyrene	0.030	Ü	mg/L	EPA 8270		09/02 09/25	MTT
Butylbenzylphthalate	0.030	Ü	mg/L	EPA 8270		09/02 09/25	MTT
3,3-Dichlorobenzidine	0.030	Ü	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(a)Anthracene	0.030	Ū	mg/L	EPA 8270		09/02 09/25	MTT
Chrysene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
bis(2-Ethylhexyl)Phthal	0.030	U	mg/L	EFA 8270		09/02 09/25	MTT
di-n-Octylphthalate	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(b)Fluoranthene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(k)Fluoranthene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(a)Pyrene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Indeno(1,2,3-cd)Pyrene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Dibenz(a,h)Anthracene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(g,h,i)Perylene	0.030	U	mg/L	EPA 8270		09/02 09/25	MTT
Total Matala Apolicaia							
Total Metals Analysis ICP Screen, ICF					- /-		
Aluminum	0.10	U	ma /r	EPA	n/a	09/07 09/10	Dr.C
Antimony	0.10	Ü	mg/L mg/L	EPA 6010 EPA 6010		09/07 09/10	DLG DLG
Arsenic	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG
Barium	0.16	O	mg/L	EPA 6010		09/07 09/10	DLG
Beryllium	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Cadmium	0.050	Ŭ	mg/L	EPA 6010		09/07 09/10	DLG
Calcium	57	-	mg/L	EPA 6010	**	09/07 09/10	DLG
Chromium	0.050	Ü	mg/L	EPA 6010		09/07 09/10	DLG
Cobalt	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG
Copper	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Iron	0.38		mg/L	EPA 6010		09/07 09/10	DLG
Lead	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STR Chemlab Ref.# :93.4423-1 ANCHORAGE, AK 99518 Client Sample ID :LON ST02 SW01 TEL: (907) 562-23-3 FAX: (907) 561-5301 Matrix :WATER ( Builthe Comment DLC Magnesium 09/07 09/10 48 mg/L EPA 6010 DL( Manganese 09/07 09/10 0.055 mg/L EPA 6010 DL( 09/07 09/10 Molybdenum 0.050 U mg/L EPA 6010 09/07 09/10 DLC Nickel 0.050 U mg/L EPA 6010 DLC Potassium 09/07 09/10 5.0 U mg/L EPA 6010 Selenium 09/07 09/10 0.10 U mq/L EPA 6010 09/07 09/10 DLC Silver 0.050 U mq/L EPA 6010 09/07 09/10 DLC Sodium 110 EPA 6010 J mg/LJ./ 0.005 09/06 09/08 BM Thallium U EPA 7841 mq/L 09/07 09/10 DLC Vanadium 0.050 Ü mg/L EPA 6010 09/07 09/10 DLC Zinc 0.050 U EPA 6010 mg/L Dissolved Metals Analys ICP Screen, ICF EPA n/a 09/07 09/10 DLC Aluminum 0.10 U mg/L EPA 6010 09/07 09/10 DLC 0.10 Antimony U mg/L EPA 6010 09/07 09/10 DLC 0.10 U EPA 6010 Arsenic mg/L 09/07 09/10 DLC 0.16 EPA 6010 Barium mg/L 09/07 09/10 DLC 0.050 Beryllium U EPA 6010 mg/L 09/07 09/10 DLC Cadmium 0.050 EPA 6010 U mg/L Calcium 56 EPA 6010 09/07 09/10 DLC mg/L Chromium 0.050 EPA 6010 09/07 09/10 DLC U mg/L DI.G 09/07 09/10 Cobalt 0.10 U EPA 6010 mg/L 09/07 09/10 Copper 0.050 U mg/L EPA 6010 09/07 09/10 **SEG** 0.18 EPA 6010 Iron mg/L 09/07 09/10 DLG 0.10 EPA 6010 Lead U mg/L J mg/L J.( 09/07 09/10 DLG Magnesium 50 EPA 6010 09/07 09/10 DLG 0.050 EPA 6010 Manganese U mg/L 09/07 09/10 DLG Molybdenum 0.050 Ü EPA 6010 mg/L 09/07 09/10 DLG EPA 6010 0.050 Ü Nickel mg/L 09/07 09/10 DLG 5.0 U EPA 6010 Potassium mg/L 09/07 09/10 DLG 0.10 U EPA 6010 Selenium mg/L 09/07 09/10 DLG **EPA** 6010 Silver 0.050 U mg/L 09/07 09/10 DLG Sodium 130 EPA 6010 mg/L 09/06 09/08 BMW Thallium 0.005 - [ ] mg/L EPA 7841 09/07 09/10 DLG Vanadium 0.050 U mg/L EPA 6010 09/07 09/10 DLG EPA 6010 Zinc 0.050 U mg/L EPA 9060 n/a TOC. Nonpurgable EPA 9060 09/08 CMR 28.9-30.8 ...TOC Range mq/L 09/08 EPA 9060 CMR ...TOC Concentration 29.7 mg/L 09/02 09/02 **GPF** EPA 160.2 Residue, Non-Filterable 8.5 ma/L 500 09/08 09/10 **RJK** EPA 160.1 Residue, Filterable (TDS) 858 mg/L

dup s. ~ 416/94

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit. LT = Less Than

D = Secondary dilution.

UA = Unavailable

NA = Not Analyze

GT = Greater Than



See Special Instructions Above



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4423-3

Client Sample ID : LON ST02 SW01 DUPLICATE

Matrix

:WATER

Client Name Ordered By

:ICF KAISER ENGINEERING :RAY MORRIS

Project Name Project#

:DEW LINE :LONELY

PWSID

:UA

WORK Order

Received

:70207 Report Completed :09/30/93

Collected

:08/26/93

@ 15:20 hrs :08/29/93 @ 12:45 hrs

5633 B STREET ANCHORAGE, AK 99518

TEL: (907) 562-2343

FAX: (907) 561-5301

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., AND S.S.

	Parameter 	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Total Metals Analysis				_				
	ICP Screen, ICF				EPA	n/a			
	Aluminum	0.10		mg/L	EPA 6010		09/07	09/10	DLG
	Antimony	0.10	U	mg/L	EPA 6010			09/10	DLG
	Arsenic	0.10	U	mg/L	EPA 6010			09/10	DLG
	Barium	0.17		mg/L	EPA 6010			09/10	DLG
	Beryllium	0.050	U	mg/L	EPA 6010			09/10	DLG
	Cadmium	0.050	U	mg/L	EPA 6010			09/10	DLG
_	Calcium	58		mg/L	EPA 6010			09/10	DLG
	Chromium	0.050	U	mg/L	EPA 6010			09/10	DLG
	Cobalt	0.10	U	mg/L	EPA 6010			09/10	DLG
	Copper	0.050	U	mg/L	EPA 6010			09/10	DLG
	Iron	0.37		mg/L	EPA 6010			09/10	DLG
	Lead	0.10	U	mg/L	EPA 6010		09/07		DLG
	Magnesium	50		mg/L	EPA 6010		09/07		DLG
	Manganese	0.054		mg/L	EPA 6010		09/07		DLG
	Molybdenum	0.050	U	mg/L	EPA 6010		09/07		DLG
	Nickel	0.050	U	mg/L	EPA 6010		09/07		DLG
	Potassium	5.0	Ü	mg/L	EPA 6010		09/07		DLG
	Selenium	0.10	U	mg/L	EPA 6010		09/07		DLG
	Silver	0.050	U	mg/L	EPA 6010		09/07		DLG
	Sodium	120		mg/L	EPA 6010		09/07		DLG
	Thallium	0.0050	U	mg/L	EPA 7841		09/06		BMW
	Vanadium	0.050	U	mg/L	EPA 6010		09/07		DLG
	Zinc	0.050	ប	mg/L	EPA 6010		09/07		DLG
	Dissolved Metals Analys				~				
	ICP Screen, ICF				EPA	n/a			
	Aluminum	0.10	U	mg/L	EPA 6010	, G	09/07	09/10	DLG
	Antimony	0.10	U	mg/L	EPA 6010		09/07		DLG
	Arsenic	0.10	U	mg/L	EPA 6010		09/07		DLG
	Barium	0.16		mg/L	EPA 6010		09/07		DLG
	Beryllium	0.050	U	mg/L	EPA 6010		09/07		DLG
	Cadmium	0.050	U	mg/L	EPA 6010	1	09/07		DLG
	Calcium	56		mg/L	EPA 6010		09/07		DLG
	Chromium	0.050	U	mg/L	EPA 6010		09/07	09/10	DLG
-	Cobalt	0.10	U	mg/L	EPA 6010		09/07		DLG
	Copper	0.050	U	mg/L	EPA 6010		09/07		DLG
				_			, .	, 10	230



Zinc

#### COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STRE Chemlab Ref.# :93.4423-3 ANCHORAGE, AK 99518 Client Sample ID :LON ST02 SW01 DUPLICATE TEL: (907) 562-2343 FAX: (907) 561-5301 :WATER 09/07 09/10 DLG EPA 6010 0.18 mg/Ĺ Iron 09/07 09/10 DLG EPA 6010 0.10 U mg/L Lead 09/07 09/10 DLG EPA 6010 49 Magnesium mg/L 09/07 09/10 DLG EPA 6010 0.050 U Manganese mg/L 09/07 09/10 DLG EPA 6010 0.050 U Molybdenum mg/L mg/L mg/L 09/07 09/10 DLG 0.050 U EPA 6010 Nickel 09/07 09/10 EPA 6010 DLG 5.0 U Potassium 09/07 09/10 DLG 0.10 U mg/L EPA 6010 Selenium 09/07 09/10 DLG EPA 6010 0.050 U mg/L Silver 09/07 09/10 DLG EPA 6010 120 mg/L Sodium 09/06 09/08 BMW 0.0050 U EPA 7841 mg/L Thallium 09/07 09/10 0.050 U mg/L DLG EPA 6010 Vanadium

EPA 6010

0.050 U mg/L

* See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit. LT = Less Than

D = Secondary dilution.

UA = Unavailable

09/07 09/10

DLG

NA = Not Analyzed

GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

hemlab Ref.# :93.4423-2

Client Sample ID :LON ST02 SW01 SPIKE

:WATER

:ICF KAISER ENGINEERING

5600 B STREET ANCHORAGE, AK 99513 TEL. (907) 562-2343 FAX (907) 551-5301

WORK Order :70207

Report Completed :09/30/93

Collected :08/26/93 @ 15:20 hr: Received :08/29/93 @ 12:45 hr:

Technical Director: STEPHEN, C. EDE

Ordered By Project Name

Client Name

:RAY MORRIS :DEW LINE : LONELY

Project# PWSID

:UA

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., AND S.S.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.020		mg/L	EPA 8260		09/03	09/03	MCh
	Bromobenzene	0.0010	U	mg/L	EPA 8260			09/03	MC
	Bromochloromethane	0.0010	Ū	mg/L	EPA 8260			09/03	MCF
	Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCF
	Bromoform	0.0010	U	mg/L	EPA 8260			09/03	MCr
	Bromomethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	n-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	MCh
	sec-Butylbenzene	0.0010	Ü	mg/L	EPA 8260			09/03	MCK
	tert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260			09/03	MCM
1	Chlorobenzene	0.020		mg/L	EPA 8260			09/03	MCM
	Chloroethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Chloroform	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Chloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Dibromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,2-Dichloroethane	0.0023		mg/L	EPA 8260		09/03		MCM
	1,1-Dichloroethene	0.019		mg/L	EPA 8260		09/03		MCM
	cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Ethylbenzene	0.0010	U	mg/L	EPA 8260	•	09/03		MCM
	Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03		MCM
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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B S Chemlab Ref.# :93.4423-2 ANCHORAGE, AK Client Sample ID :LON ST02 SW01 SPIKE TEL: (907) 562-2343 Matrix :WATER FAX. (907) 561-5301 Methylene Chloride 0.0010 U ma/L 09/03 09/03 EPA 8260 MCM Napthalene 0.0010 U mg/LEPA 8260 09/03 09/03 MCM n-Propylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 MCM Styrene 0.0010 U 09/03 09/03 mq/L EPA 8260 MCM 1112-Tetrachloroethane 0.0010 U mq/L EPA 8260 09/03 09/03 MCM 1122-Tetrachloroethane U 0.0010 09/03 09/03 ma/L EPA 8260 MCM Tetrachloroethene 0.0010 U EPA 8260 09/03 09/03 mg/L MCM Toluene 0.021 09/03 09/03 EPA 8260 mg/L MCM 1,2,3-Trichlorobenzene 0.0010 U mg/L EPA 8260 09/03 09/03 MCM 1.2.4-Trichlorobenzene 0.0010 U mg/L EPA 8260 09/03 09/03 MCM 1,1,1-Trichloroethane 0.0010 U EPA 8260 09/03 09/03 mq/L MCM 1,1,2-Trichloroethane 0.0010 U mq/L EPA 8260 09/03 09/03 MCM Trichloroethene 0.019 EPA 8260 mq/L. 09/03 09/03 MCM Trichlorofluoromethane 0.0010 U mg/L EPA 8260 09/03 09/03 MCM 1,2,3-Trichloropropane 0.0010 U mg/LEPA 8260 09/03 09/03 MCM 1,2,4-Trimethylbenzene 0.0010 U mq/L EPA 8260 09/03 09/03 MCM 1,3,5-Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 MCM Vinyl Chloride 0.0010 U mg/L EPA 8260 09/03 09/03 MCM p+m-Xylene 0.0010 U EPA 8260 09/03 09/03 mq/L MCM o-Xylene 0.0010 []mg/L EPA 8260 09/03 09/03 MCM Semivolatile Organics **EPA** 8270 Phenol 0.158 09/02 09/25 MTT mg/L EPA 8270 bis(2-Chloroethyl)ether 0.030 U mg/L EPA 8270 09/02 09/25 I 2-Chlorophenol 0.173 mg/L **EPA** 8270 09/02 09/25 1.3-Dichlorobenzene 0.030 IJ mg/L EPA 8270 09/02 09/25 MTT 1,4-Dichlorobenzene 0.179 mq/L EPA 8270 09/02 09/25 MTT Benzyl Alcohol 0.030 U mg/L EPA 8270 09/02 09/25 MTT 1,2-Dichlorobenzene 0.030 U mg/L EPA 8270 09/02 09/25 MTT 2-Methylphenol 0.030 mg/L EPA 8270 09/02 09/25 MTT bis(2-Chloroisopropyl)e 0.030 [] mg/L EPA 8270 09/02 09/25 MTT 4-Methylphenol 0.030 H 09/02 09/25 mg/L EPA 8270 MTT n-Nitroso-di-n-Propylam 0.232 EPA 8270 09/02 09/25 MTT mq/L Hexachloroethane 0.030 mq/L EPA 8270 09/02 09/25 MTT Nitrobenzene 0.030 mg/L EPA 8270 09/02 09/25 TTM Isophorone 0.030 IJ EPA 8270 09/02 09/25 MTT mg/L 2-Nitrophenol 0.030 09/02 09/25 U EPA 8270 TTM mq/L 2,4-Dimethylphenol 0.030 09/02 09/25 U mg/L EPA 8270 MTT Benzoic Acid 0.030 09/02 09/25 U mg/L EPA 8270 MTT bis(2-Chloroethoxy)Meth 0.030 09/02 09/25 Ű mq/L EPA 8270 MTT 2,4-Dichlorophenol 0.030 U 09/02 09/25 MTT mg/L EPA 8270 1.2.4-Trichlorobenzene 0.203 mg/L EPA 8270 09/02 09/25 MTT Naphthalene 0.030 mg/L EPA 8270 09/02 09/25 MTT 4-Chloroaniline 0.030 IJ mg/L EPA 8270 09/02 09/25 MTT Hexachlorobutadiene 0.030 U mq/L EPA 8270 09/02 09/25 MTT 4-Chloro-3-Methylphenol 0.229 mq/L EPA 8270 09/02 09/25 MTT 2-Methylnaphthalene 0.030 U 09/02 09/25 MTT mq/L **EPA** 8270 Hexachlorocyclopentadie 0.030 09/02 09/25 MTT mg/L EPA 8270 2.4.6-Trichlorophenol 0.030 MTT U 09/02 09/25 mq/L EPA 8270 09/02 09/25 2,4,5-Trichlorophenol 0.030 U MTT mq/L EPA 8270 2-Chloronaphthalene 0.030 TTM 09/02 09/25 U mg/L EPA 8270





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS hemlab Ref.# :93.4423-2 5633 B STREET 414CHORAGE, AK 99518 Client Sample ID :LON ST02 SW01 SPIKE EL (907) 562-2343 Matrix :WATER FAX (907) 561-5301 2-Nitroaniline 0.030 U mq/L EPA 8270 09/02 09/25 MT Dimethylphthalate 0.030 U mq/L EPA 8270 09/02 09/25 MTC Acenaphthylene 0.030 U mq/L EPA 8270 09/02 09/25 MT. 2,6-Dinitrotoluene 0.030 mg/L 09/02 09/25 EPA 8270 MTT 3-Nitroaniline 0.030 U mg/L EPA 8270 09/02 09/25 MTT Acenaphthene 0.213 mq/L EPA 8270 09/02 09/25 MTT 2,4-Dinitrophenol 0.030 U mq/L EPA 8270 09/02 09/25 MTT 4-Nitrophenol 0.098 mq/L EPA 8270 09/02 09/25 MTT Dibenzofuran 0.030 U mg/L EPA 8270 09/02 09/25 MTT 2,4-Dinitrotoluene 0.258 mg/L EPA 8270 09/02 09/25 MTT Diethylphthalate 0.030 Ħ mq/L EPA 8270 09/02 09/25 MTT 4-Chlorophenyl-Phenylet 0.030 U mg/L EPA 8270 09/02 09/25 MTT Fluorene 0.030 U mg/L EPA 8270 09/02 09/25 MTT 4-Nitroaniline 0.030 U mg/L EPA 8270 09/02 09/25 MTT 4,6-Dinitro-2-Methylphe 0.030 U mg/L EPA 8270 09/02 09/25 MTT n-Nitrosodiphenylamine 0.030 U mq/L EPA 8270 09/02 09/25 MTT 4-Bromophenyl-Phenyleth 0.030 U mq/LEPA 8270 09/02 09/25 MTT Hexachlorobenzene 0.030 U mq/L EPA 8270 09/02 09/25 MTT Pentachlorophenol 0.049 mq/L EPA 8270 09/02 09/25 MTT Phenanthrene 0.030 U mq/L EPA 8270 09/02 09/25 MTT Anthracene 0.030 U mg/L EPA 8270 09/02 09/25 MTT di-n-Butylphthalate 0.178 mg/L **EPA 8270** 09/02 09/25 MTT Fluoranthene 0.030 U 09/02 09/25 mq/L EPA 8270 MTT Pyrene 0.231 mg/L EPA 8270 09/02 09/25 MTT Butylbenzylphthalate 0.030 IJ mq/L EPA 8270 09/02 09/25 MTT 3,3-Dichlorobenzidine 0.030 U ma/L EPA 8270 09/02 09/25 MTT Benzo(a)Anthracene 0.030 U mq/L EPA 8270 09/02 09/25 MTT Chrysene 0.030 U mg/L EPA 8270 09/02 09/25 MTT bis(2-Ethylhexyl)Phthal 0.030 U mq/L EPA 8270 09/02 09/25 MTT di-n-Octylphthalate 0.030 U mg/L 09/02 09/25 EPA 8270 MTT Benzo(b)Fluoranthene 0.030 U mg/L EPA 8270 09/02 09/25 MTT Benzo(k)Fluoranthene 0.030 U mg/L EPA 8270 09/02 09/25 MTT Benzo(a)Pyrene 0.030 U mg/L EPA 8270 09/02 09/25 MTT Indeno(1,2,3-cd)Pyrene 0.030 U mg/L EPA 8270 09/02 09/25 MTT Dibenz(a,h)Anthracene 0.030 U EPA 8270 mg/L 09/02 09/25 MTT Benzo(g,h,i)Perylene 0.030 IJ mg/L EPA 8270 09/02 09/25 MTT Total Metals Analysis ICP Screen, ICF **EPA** n/a Aluminum 0.91 mg/L EPA 6010 09/07 09/10 DLG Antimony 0.82 mg/L EPA 6010 09/07 09/10 DLG Arsenic 0.93 EPA 6010 mg/L 09/07 09/10 DLG Barium 1.12 mg/L EPA 6010 09/07 09/10 DLG Beryllium 0.37 mg/L EPA 6010 09/07 09/10 DLG Cadmium 0.46 EPA 6010 mg/L 09/07 09/10 DLG Calcium 67 EPA 6010 mg/L 09/07 09/10 DLG Chromium 0.94 mg/L EPA 6010 09/07 09/10 DLG Cobalt 0.91 EPA 6010 mg/L 09/07 09/10 DLG Copper 0.89 mg/L EPA 6010 09/07 09/10 DLG Iron 1.29 mg/L EPA 6010 09/07 09/10 DLG Lead 0.87 mq/L EPA 6010 09/07 09/10 DLG





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 8 STREE Chemlab Ref.# :93.4423-2 ANCHORAGE, AK 99518 TEL (907) 562-2343 Client Sample ID :LON ST02 SW01 SPIKE FAX (907) 561-5301 Matrix :WATER Magnesium 59 mq/L EPA 6010 09/07 09/10 DLC Manganese 0.99 mg/L EPA 6010 09/07 09/10 DLC Molybdenum 0.97 09/07 09/10 mg/L EPA 6010 DL( Nickel 0.91 mg/L EPA 6010 09/07 09/10 DL( Potassium 9.9 mg/L EPA 6010 09/07 09/10 DLC Selenium 0.88 mg/L 09/07 09/10 EPA 6010 DLC Silver 0.16 mg/L EPA 6010 09/07 09/10 DLC Sodium 130 09/07 09/10 mg/L EPA 6010 DLC Thallium 0.015 mg/L EPA 7841 09/06 09/08 BMY Vanadium 0.92 09/07 09/10 mg/L EPA 6010 DLC Zinc 0.92 09/07 09/10 mg/L EPA 6010 DLC Dissolved Metals Analys ICP Screen, ICF EPA n/a Aluminum 0.86 mq/L 09/07 09/10 EPA 6010 DLC Antimony 0.81 mg/L EPA 6010 09/07 09/10 DLC Arsenic 0.93 mq/L 09/07 09/10 EPA 6010 DLG Barium 1.13 mg/L 09/07 09/10 EPA 6010 DLG 0.38 Beryllium mg/L 09/07 09/10 EPA 6010 DLG Cadmium 0.47 mg/L 09/07 09/10 EPA 6010 DLG Calcium 66 mg/L EPA 6010 09/07 09/10 DLG Chromium 0.96 mg/L EPA 6010 09/07 09/10 DLG 0.93 Cobalt mg/L09/07 09/10 EPA 6010 l.G Copper 0.89 mg/L 09/07 09/10 JLG EPA 6010 Iron 1.11 09/07 09/10 DLG mg/L EPA 6010 Lead 0.90 09/07 09/10 DLG mg/L EPA 6010 Magnesium 58 mg/L EPA 6010 09/07 09/10 DLG 0.97 Manganese 09/07 09/10 DLG mg/L EPA 6010 0.95 Molybdenum mg/L 09/07 09/10 EPA 6010 DLG Nickel 0.93 09/07 09/10 DLG mg/L EPA 6010 Potassium 9.3 09/07 09/10 DLG EPA 6010 mg/L Selenium 0.89 09/07 09/10 DLG mg/L EPA 6010 Silver 0.16 09/07 09/10 mg/L EPA 6010 DLG Sodium 120 EPA 6010 09/07 09/10 DLG mq/L Thallium 0.017 mg/L EPA 7841 09/06 09/08 BMW Vanadium 0.93 mg/L EPA 6010 09/07 09/10 DLG Zinc 0.93 09/07 09/10 mg/L EPA 6010 DLG

UA = Unavailable

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NA = Not Analyzed

LT = Less Than

GT = Greater Than



See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.



Client Name

## COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REFORT of ANALYSIS

Chemlab Ref.# :93.4423-4 Client Sample ID :LON ST02 SW01 SPIKE DUPLICATE

:ICF KAISER ENGINEERING

Matrix :WATER

> WORK Order :70207

Ordered By :RAY MORRIS Report Completed :09/30/93 Project Name :DEW LINE

Collected :08/26/93 @ 15:20 hrs Project# :LONELY Received :08/29/93 @ 12:45 hrs PWSID :UA

Technical Director: STEPHEN C. EDE Released By : /

5633 B STREET ANCHORAGE, AK 99513

TEL (907) 562-2343

FAX: (907) 561-5301

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., AND S.S.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics								
Benzene	0.021		mg/L	EPA 8260 EPA 8260		00 (00	00.45-	
Bromobenzene	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	MCM
Bromochloromethane	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
Bromodichloromethane	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
Bromoform	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
Bromomethane	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
n-Butylbenzene	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
sec-Butylbenzene	0.0010	Ü	mg/L	EPA 8260			09/03	MCH
tert-Butylbenzne	0.0010	Ū	mg/L	EPA 8260			09/03	MCM
Carbon Tetrachloride	0.0010	Ū	mg/L	EPA 8260			09/03	MCM
Chlorobenzene	0.021	_	mg/L	EPA 8260			09/03	MCM
Chloroethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
Chloroform	0.0010	U	mg/L	EPA 8260			09/03 09/03	MCM
Chloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCM MCM
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		MCM
4-Chlorotoluene	0.0010	Ü	mg/L	EPA 8260		09/03		MCM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,2-Dichloroethane	0.0023		mg/L	EPA 8260		09/03		MCM
1,1-Dichloroethene cis-1,2-Dichloroethene	0.019		mg/L	EPA 8260		09/03		MCM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
2,2-Dichloropropane	0.0010 0.0010	U	mg/L	EPA 8260		09/03		MCM
1,1-Dichloropropene	0.0010	U	mg/L	EFA 8260		09/03	09/03	MCM
Ethylbenzene	0.0010	U	mg/L	EPA 8260	•	09/03		MCM
Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03		MCM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03		MCM
- rookroblicordenc	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM



# COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

* * 12		REP	ORT of AN	ALYSTS				
Chemlab Ref.# :93.4423-	4						5633 B S	
Client Sample ID :LON ST02	SW01 SPIKE	DΨ	PLICATE			ANC	HORAGE, AR TEL. (907) 5	K 99518
Matrix :WATER							FAX: (907) 5	61-5301
Methylene Chloride		U	mg/L	EPA 8260		09/03	09/03	MCM
Napthalene	0.0010	U	mg/L	EPA 8260			09/03	MCM
n-Propylbenzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
Styrene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM.
1112-Tetrachloroethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
1122-Tetrachloroethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
Tetrachloroethene	0.0010	U	mg/L	EPA 8260			09/03	MCM
Toluene	0.021		mg/L	EPA 8260			09/03	MCM
1,2,3-Trichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	
1,2,4-Trichlorobenzene	0.0010	U	mg/L	EPA 8260		00/03	09/03	MCM
1,1,1-Trichloroethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
1,1,2-Trichloroethane	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
Trichloroethene	0.019		mg/L	EPA 8260		09/03	09/03	MCM
Trichlorofluoromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
1,2,3-Trichloropropane	0.0010	Ü	mg/L	EPA 8260				MCM
1,2,4-Trimethylbenzene		Ü	mg/L	EPA 8260			09/03	MCM
1,3,5-Trimethylbenzene		Ü	mg/L	EPA 8260			09/03	MCM
Vinyl Chloride		Ŭ	mg/L	EPA 8260			09/03	MCM
p+m-Xylene	0.0010	U	mg/L	EPA 8260			09/03	MCM
o-Xylene	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
		•	97 5	LIA 0200		09/03	09/03	MCH
Semivolatile Organics				EPA 8270				
Phenol	0.176		mg/L	EPA 8270		00/03	09/25	
bis(2-Chloroethyl)ether		U	mg/L	EPA 8270				TT
2-Chlorophenol	0.216	Ü	mg/L	EPA 8270			09/25	
1,3-Dichlorobenzene		U	mg/L	EPA 8270			09/25	MTT
1,4-Dichlorobenzene	0.167	•	mg/L	EPA 8270			09/25	MTT
Benzyl Alcohol		U	mg/L	EPA 8270			09/25	MTT
1,2-Dichlorobenzene		Ŭ	mg/L	EPA 8270			09/25	MTT
2-Methylphenol	0.030	Ü	mg/L	EPA 8270			09/25	MTT
bis(2-Chloroisopropyl)e	0.030	Ü	mg/L	EPA 8270		09/02		MTT
4-Methylphenol	0.030	Ŭ	mg/L	EPA 8270			09/25	MTT
n-Nitroso-di-n-Propylam	0.269	•	mg/L	EPA 8270			09/25	MTT
Hexachloroethane		U	mg/L	EPA 8270			09/25	MTT
Nitrobenzene		Ü	mg/L	EPA 8270		09/02		MTT
Isophorone	0.030		mg/L	EPA 8270		09/02		MTT
2-Nitrophenol		Ü	mg/L	EPA 8270		09/02		MTT
2,4-Dimethylphenol	0.030	Ŭ	mg/L	EPA 8270		09/02		MTT
Benzoic Acid		Ü	mg/L	EPA 8270		09/02		MTT
bis(2-Chloroethoxy)Meth		Ü	mg/L	EPA 8270		09/02		MTT
2,4-Dichlorophenol		Ŭ	mg/L	EPA 8270		09/02		MTT
1,2,4-Trichlorobenzene	0.187	J	mg/L	EPA 8270		09/02		MTT
Naphthalene	0.030	U	mg/L	EPA 8270		09/02		MTT
4-Chloroaniline	0.030	Ü	mg/L			09/02		MTT
Hexachlorobutadiene		U	mg/L	EPA 8270 EPA 8270		09/02		MTT
4-Chloro-3-Methylphenol	0.243	J	mg/L	EPA 8270		09/02		MTT
2-Methylnaphthalene	0.030	U	mg/L	EPA 8270		09/02		MTT
Hexachlorocyclopentadie		Ü	mg/L	EPA 8270	•	09/02		MTT
2,4,6-Trichlorophenol		Ü	mg/L	EPA 8270		09/02		MTT
2,4,5-Trichlorophenol		U	mg/L	EPA 8270		09/02		MTT
2-Chloronaphthalene		Ü	mg/L	EPA 8270		09/02		MTT
	2.000	~	₩3\ L	ELA UZIU		09/02	07/25	T I



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4423-4 5633 B STREET ANCHORAGE, AK 99513 Client Sample ID :LON ST02 SW01 SPIKE DUPLICATE TEL (907) 562-2343 Matrix FAX (907) 561-5301 2-Nitroaniline 0.030 U mg/L EPA 8270 09/02 09/25 MT Dimethylphthalate 0.030 11 mg/L EPA 8270 09/02 09/25 MT. Acenaphthylene 0.030 U mg/L EPA 8270 09/02 09/25 2,6-Dinitrotoluene 0.030 Ħ mg/L EPA 8270 09/02 09/25 3-Nitroaniline 0.030 11 mg/L EPA 8270 09/02 09/25 MTT Acenaphthene 0.208 mg/L EPA 8270 09/02 09/25 MT 2,4-Dinitrophenol 0.030 mg/L EPA 8270 09/02 09/25 MTI 4-Nitrophenol 0.144 mg/L EPA 8270 09/02 09/25 MTT Dibenzofuran 0.030 mg/L EFA 8270 09/02 09/25 2,4-Dinitrotoluene MTT 0.262 mg/L EPA 8270 09/02 09/25 MTT Diethylphthalate 0.030 U EPA 8270 mq/L 09/02 09/25 TTM 4-Chlorophenyl-Phenylet 0.030 U mg/L EPA 8270 09/02 09/25 Fluorene MTT 0.030 U mg/L EPA 8270 09/02 09/25 MTT 4-Nitroaniline 0.030 U mg/L EPA 8270 09/02 09/25 MTT 4,6-Dinitro-2-Methylphe 0.030 U mg/L EPA 8270 09/02 09/25 MTT n-Nitrosodiphenylamine 0.030 U mg/L EPA 8270 09/02 09/25 4-Bromophenyl-Phenyleth MTT 0.030 U mg/L EPA 8270 09/02 09/25 MTT Hexachlorobenzene 0.030 U mg/L EPA 8270 09/02 09/25 MTT Pentachlorophenol 0.113 mg/L EPA 8270 09/02 09/25 MTT Phenanthrene 0.030 H mg/L EPA 8270 09/02 09/25 MTT Anthracene 0.030 U mg/L EPA 8270 09/02 09/25 di-n-Butylphthalate TTM 0.190 mg/L EPA 8270 09/02 09/25 MTT Fluoranthene 0.030 mg/L EPA 8270 09/02 09/25 Pyrene MTT 0.241 mg/L EPA 8270 09/02 09/25 MTT Butylbenzylphthalate 0.030 mg/L EPA 8270 09/02 09/25 MTT 3,3-Dichlorobenzidine 0.030 U mg/L EPA 8270 09/02 09/25 MTT Benzo(a)Anthracene 0.030 U mq/L EPA 8270 09/02 09/25 MTT Chrysene 0.030 U mg/L EPA 8270 09/02 09/25 MTT bis(2-Ethylhexyl)Phthal 0.030 U mg/L EPA 8270

See Special Instructions Above

See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit.

0.030

0.030

0.030

0.030

0.030

0.030

0.030

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11

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mg/L

mg/L

mg/L

mg/L

mg/L

mq/L

mq/L

EPA 8270

EPA 8270

EPA 8270

EPA 8270

EPA 8270

EPA 8270

EPA 8270

D = Secondary dilution.

di-n-Octylphthalate

Benzo(b)Fluoranthene

Benzo(k)Fluoranthene

Indeno(1,2,3-cd)Pyrene

Dibenz(a,h)Anthracene

Benzo(g,h,i)Perylene

Benzo(a)Pyrene

UA = Unavailable

NA = Not Analyzed

09/02 09/25

09/02 09/25

09/02 09/25

09/02 09/25

09/02 09/25

09/02 09/25

09/02 09/25

09/02 09/25

MTT

MTT

MTT

MTT

MTT

MTT

MTT

MTT

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Génerale de Surveillance)

ICF ID	LON-ST02-S01-3	LON-ST02-S02	LON-ST02-S03
F&BI Number	964	962	رم الم الم الم الم الم الم الم الم الم ال
Sample Type	soil	soil	soil (81, 49, 95
Date Received	8/27/93	8/27/93	8/27/93
	83	86	23
% Dry Weight	#6-08/28/93	#6-08/28/93	#6-08/29/93
Sequence Date	#0-08/28/93	#0 00/20/00	# G GG/20/30
Leaded Gas	<60	< 60	<220
JP-4		<120	<430
Lube Oil	1300	<60	<220
Diesel	1000ブ	< 60	~220
Spike Level			
Unknown Semi-volatile	404	0.7	87
Pentacosane	104	87	#6-08/29/93
Sequence Date	#6-08/28/93	#6-08/28/93	
PCB 1221	< 0.1	< 0.1	< 0.4
PCB 1232	< 0.1	< 0.1	< 0.4
PCB 1016	< 0.1	< 0.1	< 0.4
PCB 1242	< 0.1	< 0.1	< 0.4
PCB 1248	< 0.1	< 0.1	< 0.4
PCB 1254	< 0.1	< 0.1	< 0.4
PCB 1260	< 0.1	< 0.1	< 0.4
Spike Level			
Dibutyl Chlorendate	104	88	87
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			<b></b>
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE Dialdria			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	WA ARMADA WA ARMADA WA	0 110 00 100 100 114 00 100 100	2 00/20/03 #28.4 00/21
Vol Sequence		3 #3-08/28/93, #4-08/29/93	2-08/20/93, #384-00/31
CCI4	< 0.03	< 0.02	< 0.02
TCA	< 0.03	< 0.02	• -
Benzene	< 0.03	< 0.02	<0.2 < 0.8
TCE	< 0.03	₹0.02	90.0200.00
Toluene	0.08 ₹	< 0.02	<0.7 co.8
PCE	< 0.02	< 0.02	<0.02 40.98°
Ethylbenzene	2.70.95	< 0.02	€0.2 €0.8
Xylenes	6.3 <b>T</b>	< 0.04	≤0.4 co.16
Gasoline	72 <b>T</b>	<2 J	90 diesel
Spike level			
BFB	133	103	107

			1
ICF ID	LON-ST02-S04	LON-ST02-S05	LON-ST02-S06
F&BI Number	1036	1038	که ۱۵۹۵ (۱۵۹۵ عمل ۱۵۹۵ عمل ۱۵۹۵
Sample Type	soil	soil	soil bt of
Date Received	8/27/93	8/27/93	8/27/93 <b>\\^0</b>
% Dry Weight	36	91	98
Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93
Leaded Gas			
JP-4	< 140	< 50	< 50
Lube Oil	< 280	<110	< 100
Diesel	< 140	< 50	< 50
Spike Level			
Unknown Semi-volatile			
Pentacosane	96	78	78
Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93
PCB 1221	< 0.3	<0.1	<0.1
PCB 1232	< 0.3	<0.1	<0.1
PCB 1016	< 0.3	<0.1	<0.1
PCB 1242	< 0.3	<0.1	<0.1
PCB 1248	< 0.3	<0.1	<0.1
PCB 1254	< 0.3	<0.1	<0.1
PCB 1260	< 0.3	<0.1	<0.1
	< 0.5	< 0.1	<0.1
Spike Level	96	84	78
Dibutyl Chlorendate	90	04	78
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	2-08/28/93, #3&4-08/31		2-08/28/93, #3&4-08/31
CCI4	<0.06	< 0.02	<0.02
TCA	<0.02	< 0.02	<0.02
Benzene	< <del>0.0</del> 2	< 0.02	<0.02
TCE	< 0.02	< 0.02	< 0.02
Toluene	<0.02	< 0.02	<0.02
PCE	< 0.02	< 0.02	< 0.02
Ethylbenzene	<0.02 ¥	< 0.02	< 0.02
Xylenes	< 0.04 < 0.11	< 0.04	< 0.04
Gasoline	€2 C G J	<2 ブ	<2丁
Spike level			
BFB	116	110	119

ICF ID	LON-ST02-S06	LON-ST02-S06	LON-ST02-S06 1040 msd
F&BI Number	1040 dup	1040 ms soil	soil
Sample Type Date Received	soil 8/27/93	8/27/93	8/27/93
	8/27/93	6/27/33	0/21/00
% Dry Weight Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93
Leaded Gas	#0-08/29/93	#0-00/23/33	#0 00/20/00
JP-4	< 50		
Lube Oil	<100		
Diesel	<50	92	90
Spike Level	<b>\30</b>	02	
Unknown Semi-volatile			
Pentacosane	88	102	105
Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93
PCB 1221	<0.1		
PCB 1232	< 0.1		
PCB 1016	< 0.1		
PCB 1242	< 0.1		
PCB 1248	< 0.1		
PCB 1254	< 0.1	105	107
PCB 1260	< 0.1		
Spike Level		5	5
Dibutyl Chlorendate	84	102	105
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			•
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	#1 8 2 00/20/02	#1&2-08/28/93	#1&2-08/28/93
Vol Sequence	#1&2-08/28/93 <0.02	#1 <u>0</u> 2-00/20/93	#1&2-08/20/33 98
CCI4	< 0.02	76	76
TCA	< 0.02	97	104
Benzene TCE	< 0.02	110	
Toluene	< 0.02	97	102
PCE	< 0.02	95	101
Ethylbenzene	< 0.02	103	100
Xylenes	< 0.04	100	102
Gasoline	<2	100	102
Spike level	<b>\</b> 2	1	1
BFB	113	114	110
ט וט	110	117	110

			< (
ICF ID	LON-ST02-S07	LON-ST02-S08	LON-ST02-2,509-1.5 iled
F&BI Number	1042	1044	1800
Sample Type	soil	soil	soil by 2,95
Date Received	8/27/93	8/27/93	9/4/93
% Dry Weight	53	75	19
Sequence Date	#6-08/29/93	#6-08/29/93	#5-09/08/93
Leaded Gas			
JP-4	<90	< 70	< 270
Lube Oil	<190	<130	<530
Diesel	160 ブ	130 ブ	< 270
Spike Level			
Unknown Semi-volatile			
Pentacosane	107	109	100
Sequence Date	#6-08/29/93	#6-08/29/93	
PCB 1221	<0.2	<0.1	
PCB 1232	< 0.2	< 0.1	
PCB 1016	< 0.2	<0.1	
PCB 1242	< 0.2	<0.1	
PCB 1242	< 0.2	<0.1	
PCB 1254	< 0.2	<0.1	
PCB 1260	<0.2	<0.1	
Spike Level	<b>\(\cdot\).</b> 2		
Dibutyl Chlorendate	107	109	
Sequence Date	107	100	
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence		#1&2-08/28/93, #3&4-08/31	#1&2-09/07/93
CCI4	< 0.04	<0.02	<1
TCA	< 0.04	< 0.02	<1
Benzene	0.1 J	0.05 丁	<0.1
TCE	< 0.04	< 0.02	
Toluene	< 0.04	0.4 J	<0.2
PCE	< 0.04	2 T	<0.5
	< 0.04	2 V 0.08 J	<0.2
Ethylbenzene	< 0.04	0.065	<0.3
Xylenes	<0.08 <4 J	8 <b>T</b>	6 diesel possible carry over J
Gasoline	< 4 V	0 1	o dieser possible carry over 3
Spike level BFB	115	127	88
DFD	110	127	30

ICF ID	LON- <b>2</b> T02-2S10-1	خ LON- <b>2</b> T02-2S11-1	LON-ST02-SW01 . _ا د
F&BI Number	1802	1804	و''آسم ع 972
Sample Type	soil	soil	water H
Date Received	9/4/93	9/4/93	8/27/93 <b>\⁰</b>
% Dry Weight	67	75	
Sequence Date	#5-09/08/93	#5-09/08/93	#5-08/28/93
Leaded Gas			
JP-4	< 100	<100	<200
Lube Oil	< 200	< 200	<2000
Diesel	£100 <70	£100 < 70	£200 < 1000
Spike Level			
Unknown Semi-volatile		0.0	O.F.
Pentacosane	103	82	85
Sequence Date			#5-08/28/93 <2
PCB 1221			<2
PCB 1232			<2
PCB 1016			<2
PCB 1242			<2
PCB 1248			<2
PCB 1254			<2
PCB 1260			<b>\Z</b>
Spike Level			85
Dibutyl Chlorendate			03
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level		"11 0 0 00 10 <del>7</del> 10 0	
Vol Sequence	#1&2-09/07/93	#1&2-09/07/93	
CCI4	< 0.3	< 0.3	
TCA	< 0.3	< 0.3	
Benzene	< 0.03	< 0.03	1
TCE	< 0.06	< 0.05	
Toluene	< 0.03	<0.03 <0.1	
PCE	< 0.2	< 0.15	
Ethylbenzene	< 0.05	<0.05 <1 <b>J</b>	
Xylenes	<0.1 <2 <b>ブ</b>	くし <b>ノ</b> 15 diesel <b>ブ</b>	
Gasoline	< 2 J	ro diesei •	
Spike level	93	90	
BFB	<i>3</i> 3	50	

	ICF ID	LON-ST02-SW01	LON-ST02-SW02	LON-ST02-SW02
	F&BI Number	978	1062	1064 water 8/27/93
	Sample Type	water	water	water can sales
	Date Received	8/27/93	8/27/93	8/27/93
		8/27/93	6/27/33	0/2//93 10
	% Dry Weight		#E 09/30/03	
	Sequence Date		#5-08/30/93	
	Leaded Gas			
	JP-4		< 200	
	Lube Oil		< 2000	
	Diesel		<2004/000T	
	Spike Level			
	Unknown Semi-volatile			
	Pentacosane		50 outside recovery limits	
	Sequence Date		#5-08/30/1993	
	PCB 1221		<2 <b>ブ</b>	
	PCB 1232		<2	
	PCB 1016		<2	
	PCB 1242		<2	
	PCB 1248		<2	
	PCB 1254	•	<2	
	PCB 1260		<2∜	
			~2	
	Spike Level		50 outside recovery limits	
	Dibutyl Chlorendate		50 outside recovery illints	
	Sequence Date			
	alpha-BHC			
	beta-BHC			
	gamma-BHC			
	delta-BHC			
	Heptachlor			
	Aldrin			
	Heptachlor Epoxide			
	Endosulfan I			
	DDE			
	Dieldrin			
	Endrin			
	Endosulfan II			
	DDD			
	Endrin Aldehyde			
	DDT			
	Endosulfan Sulfate			
	Endrin Ketone			
	Methoxy Chlor			
	Chlordane			
	Dibutyl Chlorendate			
	Spike Level			
	Vol Sequence	#3-08/28/93, #4-08/29/93		#1&2-08/28/93
	CCI4	<1		<1
	TCA	<1		<1
	Benzene	<1		<1
	TCE	<1	:	<1
	Toluene	<1		<1
	PCE	<1		<1
	Ethylbenzene	<1		<1
Ī	Xylenes	<2		<2
	Gasoline	<100プ		<507
	Spike level			
	BFB	67		113

ICF ID F&BI Number	LON-ST02-SW03 1068	LON-ST02-SW03 1070	LON-ST02-SW04 (2014)
Sample Type	water	water	water kt 5
Date Received	8/27/93	8/27/93	8/27/93 <b>v</b>
% Dry Weight	#F 00/00/00		#5-08/30/93
Sequence Date	#5-08/30/93		#3-08/30/93
Leaded Gas JP-4	< 200		<200
Lube Oil	<2000		< 2000
Diesel	£200 = 1000J		5200 c1000J
Spike Level	2.2.3		
Unknown Semi-volatile			
Pentacosane	39 outside recovery limits		29 outside recovery limits
Sequence Date	#5-08/30/1993		#5-08/30/1993
PCB 1221	<2 J		<2 J
PCB 1232	<2		<2
PCB 1016	< 2		<2 <2
PCB 1242	<2		<2 <2
PCB 1248	<2		<2
PCB 1254	<2		<2 V
PCB 1260	<2₹		\Z .
Spike Level	20 autoido recovery limite		29 outside recovery limits
Dibutyl Chlorendate	39 outside recovery limits		23 Outside recovery innits
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level Vol Sequence		#1&2-08/28/93	
CCI4		<1	
TCA		<1	
Benzene		<1	
TCE		<1	*
Toluene		<1	
PCE		<1	
Ethylbenzene		<1	
Xylenes		<2	
Gasoline		<50 丁	
Spike level			
BFB		114	

ICF ID	LON-ST02-SW04	LON-ST02-SW05	LON-ST02-SW05
F&Bl Number	1074	1077	1078
Sample Type	water	water	water by 5,98
Date Received	8/27/93	8/27/93	8/27/93 10'
% Dry Weight	0/27/33	0/27/33	0/2//00
Sequence Date		#5-08/30/93	
Leaded Gas		#9-08/30/93	
JP-4		< 200	
JP-4 Lube Oil		< 2000	
Diesel		< <del>200</del> €/000	
Spike Level			
Unknown Semi-volatile		78	
Pentacosane		70	#5-08/30/1993
Sequence Date			
PCB 1221			<2 <2
PCB 1232			
PCB 1016			<2
PCB 1242			< 2
PCB 1248			< 2
PCB 1254			< 2
PCB 1260			<2
Spike Level Dibutyl Chlorendate			78
			76
Sequence Date alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/28/93		
CCI4	< 1		
TCA	< 1		
Benzene	< 1		
TCE	<1	·-	
Toluene	<1		
PCE	<1		
Ethylbenzene	<1		
Xylenes	<2		
Gasoline	<50 <b>7</b> *		
Spike level			
BFB	116		

ICF ID	LON-ST02-SW05	LON-ST02-SW06 1082	LON-ST02-SW06
F&BI Number	1080	water	water value
Sample Type	water	8/27/93	8/27/93
Date Received	8/27/93	0/2//93	0/2//33
% Dry Weight		#F 00/20/02	4
Sequence Date		#5-08/30/93	
Leaded Gas		1000	
JP-4		<200	
Lube Oil		<2000	
Diesel		<del>&lt;200</del> 000T</td <td></td>	
Spike Level			
Unknown Semi-volatile		42 - Alita - Alita III da	
Pentacosane		43 outside recovery limits	
Sequence Date		#5-08/30/1993 <2 <b>T</b>	
PCB 1221		<2	
PCB 1232			
PCB 1016		<2	
PCB 1242		<2	
PCB 1248		<2	
PCB 1254		<2	
PCB 1260		<2♥	
Spike Level			
Dibutyl Chlorendate		43 outside recovery limits	
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			4
Aldrin			•
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	<b>"4.0.0.00.100.100</b>		#1&2-08/28/93
Vol Sequence	#1&2-08/28/93		
CCI4	<1		<1 <1
TCA	<1		500 丁
Benzene	<1	•	500 <b>s</b>
TCE	<1	·	
Toluene	<1		1500 J
PCE	<1		<1
Ethylbenzene	<1		38 1000 T
Xylenes	<2		1600 J
Gasoline	<50 √		<50 J
Spike level			400
BFB	121		108

ANALYTICAL DATA SHEETS FOR THE BEACH DIESEL TANKS (SS03)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

:93.4357-4 Client Sample ID :LON-SS03-S01

Matrix

:SOIL

Client Name Ordered By

Chemlab Ref.#

:ICF KAISER ENGINEERING

Project Name

:RAY MORRIS :DEW LINE

Project# PWSID

: LONELY :UA

WORK Order

:70127 Report Completed :10/15/93

Collected Received

:08/24/93 @ 17:15 hrs. :08/26/93 @ 12:00 hrs.

Technical Director: STEPHEN, C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M. AND M. LEMMA. THE SPIKE AND SPIKE DUP FOR THIS SAMPLE WENT DRY IN THE SOXLET. THE SAMPLE WAS REPREPPED WITH A SPIKE AND SPIKE DUP FROM ANOTHER WORK ORDER THE NEXT DAY BUT IT WAS OVER HOLD TIME. THE DATA REPORTED IS FROM THE RUN THAT MET HOLD

TIMES.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.0020	U	mg/Kg	EPA 8260		08/26	09/04	SGM
	Bromobenzene	0.0020	U	mg/Kg	EPA 8260			09/04	SGM
	Bromochloromethane	0.0020	U	mg/Kg	EPA 8260			09/04	SGM
	Bromodichloromethane	0.0020	U	mg/Kg	EPA 8260			09/04	SGM
	Bromoform	0.0020	U	mg/Kg	EPA 8260			09/04	SGM
٧	Bromomethane	0.0020	U	mg/Kg	EPA 8260			09/04	SGM
	n-Butylbenzene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	sec-Butylbenzene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	tert-Butylbenzne	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	Carbon Tetrachloride	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	Chlorobenzene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	Chloroethane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	Chloroform	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	Chloromethane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	2-Chlorotoluene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	4-Chlorotoluene	0.0020	Ü	mg/Kg	EPA 8260		08/26		SGM
	Dibromochloromethane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	12Dibromo3Chloropropane	0.0020	Ü	mg/Kg	EPA 8260		08/26		SGM
	1,2-Dibromoethane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	Dibromomethane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	1,2-Dichlorobenzene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	1,3-Dichlorobenzene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	1,4-Dichlorobenzene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	Dichlorodifluoromethane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	1,1-Dichloroethane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	1,2-Dichloroethane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	1,1-Dichloroethene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	cis-1,2-Dichloroethene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	trans1,2-Dichloroethene	0.0020	U	mg/Kg	EPA 8260	·	08/26		SGM
	1,2-Dichloropropane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	1,3-Dichloropropane	0.0020	U	mg/Kg	EPA 8260		08/26		SGM
	2,2-Dichloropropane	0.0020	IJ	mg/Kg	EPA 8260		08/26		SGM
	,1-Dichloropropene	0.0020	U	mg/Kg	EPA 8260		08/26		SGM



# COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES



2 1C4 14.8				
Chomish Def # 03 (255)	RE	PORT of ANALY	SIS	5633 B STREET
Chemlab Ref.# :93.4357-4			0 - 10	ANCHORAGE, AK 99518
Client Sample ID :LON-SS03-S0 Matrix :SOIL	)1		(healthir)	TEL (907) 562-2343 FAX (907) 561-5301
Matrix :SOIL			Guingen Joun	ruits
Ethylbenzene	0 0000 .		V /	
Hexachlorobutadiene	0.0020	37 ••• 3	EPA 8260	08/26 09/04 SGM
Isopropylbenzene	0.0020 t		EPA 8260	08/26 09/04 SGM
p-Isopropyltoluene	0.0020 t	3/ ••9	EPA 8260	08/26 09/04 SGM
Methylene Chloride	0.0020 t		EPA 8260	08/26 09/04 SGM
Napthalene	0.0020		EPA 8260	08/26 09/04 SGM
n-Propylbenzene	0.039	mg/Kg	EPA 8260	08/26 09/04 SGM
Styrene	0.0020 ti		EPA 8260	08/26 09/04 SGM
1112-Tetrachloroethane			EPA 8260	08/26 09/04 SGM
1122-Tetrachloroethane		3/ 1/3	EPA 8260	08/26 09/04 SGM
Tetrachloroethene	0.0020 U 0.0020 U	··· 3/ • · · 3	EPA 8260	08/26 09/04 SGM
Toluene	0.033		EPA 8260	08/26 09/04 SGM
1,2,3-Trichlorobenzene	0.0020	mg/Kg	EPA 8260	08/26 09/04 SGM
1,2,4-Trichlorobenzene	0.0020 U	or •10	EPA 8260	08/26 09/04 SGM
1,1,1-Trichloroethane	0.0020 U		EPA 8260	08/26 09/04 SGM
1,1,2-Trichloroethane	0.0020 U	3/ • 13	EPA 8260	08/26 09/04 SGM
Trichloroethene	0.0020 U	3/ ***	EPA 8260	08/26 09/04 SGM
Trichlorofluoromethane	0.0020 U	3/ •••	EPA 8260 EPA 8260	08/26 09/04 SGM
1,2,3-Trichloropropane	0.0020 U		EPA 8260	08/26 09/04 SGM
1,2,4-Trimethylbenzene	0.174	mg/Kg	EPA 8260	08/26 09/04 SGM
1,3,5-Trimethylbenzene	0.071	mg/Kg	EPA 8260	08/26 09/04
Vinyl Chloride	<b>0.00</b> 20 U		EPA 8260	08/26 09/04
p+m-Xylene	0.085	mg/Kg	EPA 8260	08/26 09/04 SGM 08/26 09/04 SGM
o-Xylene	0.031	mg/Kg	EPA 8260	08/26 09/04 SGM 08/26 09/04 SGM
Conius atil - and				00,20 03,04 5611
Semivolatile Organics Phenol			EPA 8270	
bis(2-Chloroethyl)ether	0.210 U	37 413	EPA 8270	09/07 10/08 GV
2-Chlorophenol	0.210 U	3/ *13	EPA 8270	09/07 10/08 GV
1,3-Dichlorobenzene	0.210 U	57 • • • •	EPA 8270	09/07 10/08 GV
1,4-Dichlorobenzene	0.210 U		EPA 8270	09/07 10/08 GV
Benzyl Alcohol 0.36	0.210 U 7 <del>1.000 U</del>	*C - 3 - 4 - 3	EPA 8270	09/07 10/08 G <b>V</b>
1,2-Dichlorobenzene	0.210 U		EPA 8270(u)-E,1	09/07 10/08 GV
2-Methylphenol	0.210 U	2, -, 3	EPA 8270	09/07 10/08 GV
bis(2-Chloroisopropyl)e	0.210 U	3/ * ' 3	EPA 8270	09/07 10/08 GV
4-Methylphenol	0.210 U	mg/Kg mg/Kg	EPA 8270	09/07 10/08 GV
n-Nitroso-di-n-Propylam	0.210 U		EPA 8270	09/07 10/08 GV
Hexachloroethane	0.210 U	2	EPA 8270 EPA 8270	09/07 10/08 GV
Nitrobenzene	0.210 U	J, J	EPA 8270	09/07 10/08 GV
Isophorone	0.210 U	37 413	EPA 8270	09/07 10/08 GV
2-Nitrophenol	0.210 U	mg/Kg	EPA 8270	09/07 10/08 GV
2,4-Dimethylphenol	<b>0.210</b> U		EPA 8270	09/07 10/08 GV 09/07 10/08 GV
Benzoic Acid	0.210 U	mg/Kg	EPA 8270	09/07 10/08 GV 09/07 10/08 GV
bis(2-Chloroethoxy)Meth	0.210 U	mg/Kg	EPA 8270	09/07 10/08 GV
2,4-Dichlorophenol	0.210 U	mg/Kg	EPA 8270	09/07 10/08 GV
1,2,4-Trichlorobenzene	0.210 U	mg/Kg	EPA 8270	09/07 10/08 GV
Naphthalene	0.210 U	mg/Kg	EPA 8270	09/07 10/08 GV
4-Chloroaniline	0.210 U		EPA 8270	09/07 10/08
Hexachlorobutadiene	0.210 U		EPA 8270	09/07 10/08
4-Chloro-3-Methylphenol 2-Methylnaphthalene	0.210 U		EPA 8270	09/07 10/08
z ne chythaphtchatene	0.210 U	<b>mg/K</b> g	EPA 8270 NO	09/07 10/08 GV
			UPT 0 94	
			2-4-11	
			J	



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4357-4 Client Sample ID :LON-SS03-S01

Matrix :SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL (907) 562-2343 Qualifii /Coun FAX (907) 561-5301

					7 70000	Tanal -		
Hexachlorocyclopentadie	0.210	U	mg/Kg	EPA 82	270	09/07	10/08	GV
2,4,6-Trichlorophenol	0.210	Ü	mg/Kg	EPA 82		09/07		G <b>V</b>
2,4,5-Trichlorophenol	0.210	U	mg/Kg	EPA 82		09/07		GV
2-Chloronaphthalene	0.210	U	mg/Kg	EPA 82		09/07		GV
2-Nitroaniline	0.210	U	mg/Kg	EPA 82		09/07		GV
Dimethylphthalate	0.210	U	mg/Kg	EPA 82		09/07		GV
Acenaphthylene	0.210	U	mg/Kg	EPA 82		09/07		GV
2,6-Dinitrotoluene	0.210	U	mg/Kg	EPA 82	270	09/07		GV
3-Nitroaniline	0.210	U	mg/Kg	EPA 82	270	09/07		<b>GV</b>
Acenaphthene	0.210	U	mg/Kg	EPA 82	270	09/07		GV
2,4-Dinitrophenol	0.210	U	mg/Kg	EPA 82	270	09/07	10/08	G <b>V</b>
4-Nitrophenol	0.210	Ü	mg/Kg	EPA 82	270	09/07	10/08	G <b>V</b>
Dibenzofuran	0.210	U	mg/Kg	EPA 82	270	09/07	10/08	G <b>V</b>
2,4-Dinitrotoluene	0.210	U	<b>mg∕K</b> g	EPA 82	270	09/07	10/08	G <b>V</b>
Diethylphthalate	0.210	U	mg/Kg	EPA 82		09/07	10/08	G <b>V</b>
4-Chlorophenyl-Phenylet	0.210	U	mg/Kg	EPA 82		09/07	10/08	<b>GV</b>
Fluorene	0.210	U	mg/Kg	EPA 82		09/07		<b>GV</b>
4-Nitroaniline	0.210	U	mg/Kg	EPA 82		09/07		<b>GV</b>
4,6-Dinitro-2-Methylphe	0.210	U	mg/Kg	EPA 82		09/07		<b>GV</b>
n-Nitrosodiphenylamine	0.210	U	mg/Kg	EPA 82		09/07		<b>GV</b>
4-Bromophenyl-Phenyleth	0.210	U	mg/Kg	EPA 82		09/07		gv
Hexachlorobenzene	0.210	U	mg/Kg	EPA 82		09/07		<b>GV</b>
Pentachlorophenol	0.210	U	mg/Kg	EPA 82		09/07		G₹
Phenanthrene	0.210	U	mg/Kg	EPA 82		09/07		<b>GV</b>
Anthracene	0.210	U •••••	mg/Kg	EPA 82		09/07		<b>GV</b>
di-n-Butylphthalate 0.65人 Fluoranthene		<del>79</del> 3		EPA 82		09/07		GV
Pyrene	0.210	U	mg/Kg	EPA 82		09/07		GV
Butylbenzylphthalate	0.210 0.210	U U	mg/Kg	EPA 82		09/07		<b>GV</b>
3,3-Dichlorobenzidine	0.210	บ	mg/Kg	EPA 82		09/07		GV
Benzo(a)Anthracene	0.210	Ü_	mg/Kg mg/Kg	EPA 82		09/07		G <b>V</b>
	1 <del>-1 -00 -</del>	- Lag	mg/Kg	EPA 82	270 (U)-E.1	09/07 09/07		g <b>a</b>
bis(2-Ethylhexyl)Phthal	0.210	Ü	mg/Kg	EPA 82		09/07		G <b>A</b>
di-n-Octylphthalate	0.210	ΰ	mg/Kg	EPA 82		09/07		GA.
Benzo(b)Fluoranthene	0.210	Ü	mg/Kg	EPA 82		09/07		GV
Benzo(k)Fluoranthene	0.210	ŭ	mg/Kg	EPA 82		09/07		GV
Benzo(a)Pyrene	0.210	Ū	mg/Kg	EPA 82		09/07		G <b>V</b>
Indeno(1,2,3-cd)Pyrene	0.210	Ü	mg/Kg	EPA 82		09/07	•	GV
Dibenz(a,h)Anthracene	0.210	Ü	mg/Kg	EPA 82		09/07		GV
Benzo(g,h,i)Perylene	0.210	Ū	mg/Kg	EPA 82		09/07		G <b>V</b>
-			-· <b>-</b>			, - '		

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit. D = Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Societe Générale de Surveillance)



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# COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES



5633 B STREET

ANCHORAGE, AK 99518

TEL (907) 562-2343

FAX (907) 561-5301

REPORT of ANALYSIS

Chemlab Ref.# :93.4357-7 Client Sample ID :LON-SS03-SW01

Matrix

PWSID

:WATER

Client Name Ordered By

:RAY MORRIS

Project Name Project#

:DEW LINE : LONELY

:UA

:ICF KAISER ENGINEERING

WORK Order :70127 Report Completed :10/15/93

Collected Received

:08/24/93

@ 16:45 hrs. :08/26/93 @ 12:00 hrs.

09/02 09/02

09/02 09/02

09/02 09/02

09/02 09/02

09/02 09/02

09/02 09/02

MCM

MCM

MCM

Technical Director: STEPHEN C. EDE Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M. AND M. LEMMA.

QC llówable Parameter Anal Results Qual Units Method Limits Date Date Init Volatile Organics EPA 8260 Benzene 0.0010 U mq/L EPA 8260 Bromobenzene 09/02 09/02 MCM 0.0010 U mg/L EPA 8260 09/02 09/02 MCM Bromochloromethane 0.0010 U mg/L EPA 8260 09/02 09/02 Bromodichloromethane MCM 0.0010 U mg/L EPA 8260 Bromoform 09/02 09/02 MCM 0.0010 Ü mg/L EPA 8260 09/02 09/02 Bromomethane MCM 0.0010 U mg/L EPA 8260 n-Butylbenzene 09/02 09/02 0.0010 U mq/L EPA 8260 sec-Butylbenzene 09/02 09/02 0.0010 U mg/L EPA 8260 tert-Butylbenzne 09/02 09/02 hull 0.0010 U mg/L EPA 8260 09/02 09/02 Carbon Tetrachloride MCM 0.0010 U mg/L EPA 8260 09/02 09/02 Chlorobenzene MCM 0.0010 U mg/L EPA 8260 09/02 09/02 Chloroethane **0.001**0 U MCM mg/L EPA 8260 09/02 09/02 Chloroform MCM 0.0010 - 11 mg/L EPA 8260 09/02 09/02 Chloromethane MCM 0.0010 H ma/L EPA 8260 09/02 09/02 2-Chlorotoluene MCM 0.0010 U mg/L EPA 8260 09/02 09/02 4-Chlorotoluene MCM 0.0010 П mg/L EPA 8260 09/02 09/02 Dibromochloromethane MCM 0.0010 U mg/L EPA 8260 12Dibromo3Chloropropane 09/02 09/02 MCM 0.0010 mg/L EPA 8260 09/02 09/02 1,2-Dibromoethane MCM 0.0010 U mg/L EFA 8260 09/02 09/02 Dibromomethane HCM 0.0010 U mg/L EFA 8260 09/02 09/02 1,2-Dichlorobenzene MCM 0.0010 U mq/L EPA 8260 09/02 09/02 1,4-Dichlorobenzene MCM 0.0010 U mg/L EPA 8260 09/02 09/02 MCM 0.0010 mg/L EPA 8260 09/02 09/02 Dichlorodifluoromethane MCM 0.0010 mg/L EPA 8260 09/02 09/02 1,1-Dichloroethane MCM 0.0010 mg/L EPA 8260 09/02 09/02 1,2-Dichloroethane 1,1-Dichloroethene MCM EPA 8260 (U) - 6.1 0.0029 mg/L 09/02 09/02 MCM 0.0010 EPA 8260 mg/L 09/02 09/02 cis-1,2-Dichloroethene MCM 0.0010 U mg/L EPA 8260 09/02 09/02 trans1,2-Dichloroethene MCM 0.0010 U mg/L EPA 8260 09/02 09/02 1,2-Dichloropropane MCM 0.0010 U mg/L EPA 8260 09/02 09/02 MCM 1,3-Dichloropropane 0.0010 U EPA 8260 mq/L 09/02 09/02 MCM 2,2-Dichloropropane 0.0010 U mg/L EPA 8260

0.0010

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U

U

mg/L

mg/L

mg/L

mg/L

mg/L

EPA 8260

EPA 8260

EPA 8260

EPA 8260

EPA 8260

1,1-Dichloropropene

Hexachlorobutadiene

Isopropylbenzene

p-Isopropyltoluene

Ethylbenzene



ENVIRONMENTAL LABORATORY SERVICES

NO 6 1908			_					
Chemlab Ref.# :93.4357-7		REPO	ORT of ANA	LYSIS			56 <b>33 B</b> S	TREET
					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	LANC	HORAGE, AK TEL (907) 56	99518
Client Sample ID :LON-SS03-SW Matrix :WATER	01				Maria L. Circi	171/11/2	FAX: (907) 56	1.5301
Matrix :WATER					v			
Methylene Chloride	0.0010	U	mg/L	ET) 8	0760	00.404		
Napthalene	0.0010	Ü			8260		2 09/02	MCM
n-Propylbenzene	0.0010	บ	mg/L		8260		2 09/02	HCM
Styrene	0.0010		mg/L		8260		09/02	HCM
1112-Tetrachloroethane	0.0010	U	mg/L		8260		09/02	HCM
1122-Tetrachloroethane		Ü	mg/L		8260		09/02	HCM
Tetrachloroethene	0.0010	Ü	mg/L		8260		09/02	HCM
Toluene	0.0010	Ü	mg/L		8260		09/02	HCM
1,2,3-Trichlorobenzene		U	mg/L		8260		09/02	HCM
1,2,4-Trichlorobenzene	0.0010	Ü	mg/L		8260		09/02	MCM
1,1,1-Trichloroethane	0.0010	U	mg/L		8260		09/02	MCM
1,1,2-Trichloroethane		U	mg/L		8260		09/02	MCM
Trichloroethene	0.0010	U	mg/L		8260		09/02	HCM
Trichlorofluoromethane	0.0010	Ü	mg/L		8260		09/02	HCM
1,2,3-Trichloropropane	0.0010	Ü	mg/L		8260		09/02	MCM
1,2,4-Trimethylbenzene	0.0010		mg/L		8260		09/02	HCM
1,3,5-Trimethylbenzene	0.0010	U	mg/L		8260		09/02	HCH
Vinyl Chloride	0.0010	Ü	mg/L		8260		09/02	HCM
p+m-Xylene	0.0010	U	mg/L		8260		09/02	HCM
o-Xylene	0.0010	U U	mg/L		8260		09/02	HCM
·	0.0010	U	mg/L	EPA	8260	09/02	09/02	HCM
Semivolatile Organics				FPA	8270			
henol	0.013	U	mg/L		8270	08/31	09/10	Malake
bis(2-Chloroethyl)ether	0.013	Ü	mg/L		8270		09/10	HTT
2-Chlorophenol	0.013	U	mg/L		8270		09/10	MTT MTT
1,3-Dichlorobenzene	0.013	U	mg/L		8270		09/10	
1,4-Dichlorobenzene	0.013	U	mg/L		8270		09/10	MTI MTI
Benzyl Alcohol	0.013	U	mg/L		8270		09/10	MTI
1,2-Dichlorobenzene	0.013	U	mg/L		8270		09/10	MTT
2-Methylphenol	0.013	U	mg/L		8270		09/10	MTT
bis(2-Chloroisopropyl)e	0.013	U	mg/L		8270		09/10	HTT
4-Methylphenol	0.013	U	mg/L		8270		09/10	HTT
n-Nitroso-di-n-Propylam	0.013	U	mg/L		8270		09/10	HTT
Hexachloroethane	0.013	U	mg/L		8270		09/10	MTT
Nitrobenzene	0.013	U	mg/L		8270		09/10	HTT
Isophorone	0.013	U	mg/L		8270	08/31	09/10	HTT
2-Nitrophenol	0.013	U	mg/L		8270		09/10	HTT
2,4-Dimethylphenol	0.013	U	mg/L		8270		09/10	MIT
Benzoic Acid	0.013	U	mg/L	EPA	8270		09/10	MTT
bis(2-Chloroethoxy)Meth	0.013	U	mg/L	EPA	8270		09/10	HTT
2.4-Dichlorophenol	0.013	U	mg/L	EPA	8270		09/10	HTT
1,2,4-Trichlorobenzene	0.013	U	mg/L	EPA	8270		09/10	MTT
Naphthalene	0.013	U	mg/L	EPA	8270		09/10	HTT
4-Chloroaniline	0.013	U	mg/L	EPA	8270		09/10	HTT
Hexachlorobutadiene	0.013	U	mg/L		8270	08/31	09/10	MTT
4-Chloro-3-Methylphenol	0.013	U	mg/L		8270	08/31	09/10	MTT
2-Methylnaphthalene	0.013	U	mg/L	EPA	8270	08/31	09/10	MTT
Hexachlorocyclopentadie	0.013	U	mg/L	EPA	8270(エ)-ム、1		09/10	MTT
2,4,6-Trichlorophenol 2,4,5-Trichlorophenol	0.013	Ü	mg/L		8270')		09/10	MTT
-Chloronaphthalene	0.013	Ü	mg/L		8270		09/10	MTT
or representations	0.013	U	mg/L	EPÄ	8270 🔻	08/31	09/10	HTT
					(us)			
					3-10-94			
					<del>-</del>			



ENVIRONMENTAL LABORATORY SERVICES



Chemlab Ref.# :93.4357 Client Sample ID :LON-SSO Matrix :WATER	-7	REPORT of ANA	/)	their Connents	5633 B STREET CHORAGE, AK 99518 TEL. (907) 562-2343 FAX: (907) 561-5301
2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenyl-Phenylet Fluorene 4-Nitroaniline 4,6-Dinitro-2-Methylphe n-Nitrosodiphenylamine 4-Bromophenyl-Phenyleth Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene di-n-Butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)Anthracene Chrysene bis(2-Ethylhexyl)Phthal di-n-Octylphthalate Benzo(b)Fluoranthene Benzo(a)Pyrene Indeno(1,2,3-cd)Pyrene Dibenz(a,h)Anthracene	0.013 0.013 0.013	U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L	EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270	08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3 08/3	1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT 1 09/10 HTT
Benzo(g,h,i)Perylene  TOC, NonpurgableTOC RangeTOC Concentration  Residue, Non-Filterable	0.013 43.1-44.2 43.6	mg/L mg/L	EPA 8270 EPA 9060 EPA 9060 EPA 9060	n/a	09/10 HTT 09/10 CMR 09/10 CMR
Residue, Filterable(TDS)	18 1430	mg/L mg/L	EPA 160.2 EPA 160.1		08/31 GPP 09/02 RJK

See Sample Remarks Above

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than



**SESS** Member of the SGS Group (Sociéte Genérale de Surveillance)

See Special Instructions Above

U = Undetected, Reported value is the practical quantification limit.

ICF ID	LON-SS03-S01	LON-SS03-S02	LON-SS03-S03
F&BI Number	536	538	540 (M)
Sample Type	soil	soil	soil by s
Date Received	8/25/93	8/25/93	8/25/93 10 ⁻ 0 ⁵
% Dry Weight	96	89	43
Sequence Date	#5-08/25/93	#5-08/25/93	#5-08/25/93
Leaded Gas	#3 00/23/33	# 0 00/20/00	" 0 00/20/00
JP-4	<50	< 60	<100
Lube Oil	<100	<120	<200
Diesel	< 50 < 50	<60	£100 20</td
Spike Level	2 30	<b>~ 00</b>	2100
Unknown Semi-volatile			
Pentacosane	127	124	125
Sequence Date	127	127	120
PCB 1221			
PCB 1231			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/25/93	#1&2-08/25/93	#1&2-08/25/93
CCI4	#182-08/23/33	#102-00/23/33	#182-00/25/55
TCA			
Benzene	< 0.02	< 0.02	< 0.04
	₹0.02	<b>\\ 0.02</b>	<b>\(\tau_{0.04}\)</b>
TCE	< 0.02	< 0.02	< 0.04
Toluene	₹0.02	<0.02	<b>~0.04</b>
PCE Ethydhanzana	~ 0	~0.02	<0.04
Ethylbenzene	< 0.02	< 0.02	<0.04 <0.08
Xylenes	<0.04	<0.04	
Gasoline	<2 <b>J</b>	<2J	<4J
Spike level	00	00	O.E.
BFB	89	93	95

			5 <b>5</b> ø 3
ICF ID	LON-SS03-S04	LON-SS03-S05	LON <del>-2T0</del> 2-2S06
F&BI Number	542	544	1806
Sample Type	soil	soil	soil
Date Received	8/25/93	8/25/93	9/4/93
% Dry Weight	48	82	92
Sequence Date	#5-08/25/93	#5-08/25/93	#5-09/08/93
Leaded Gas			100
JP-4	< 100	< 60	< 100
Lube Oil	< 200	<120	<200
Diesel	<100	<60	4 <del>0000</del> 15,200J
Spike Level			
Unknown Semi-volatile		4.00	1.40
Pentacosane	116	122	140
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			•
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	#182 08/2E/02	#1&2-08/25/93	#1&2-09/07/93
Vol Sequence	#1&2-08/25/93	#182-00/25/95	<0.1
CCI4			<0.1
TCA	40.0E	< 0.02	< 0.02
Benzene	< 0.05	< 0.02	<0.02
TCE	40.05	<0.03	<0.02
Toluene	< 0.05	< 0.02	0.5
PCE	۰,۰ ۵۳	<0.02	0.3
Ethylbenzene	< 0.05	<0.02 <0.04	0.3 1.5 J
Xylenes	< 0.1	<0.04 <2 <b>T</b>	1.5 <b>√</b> 150 diesel <b>√</b>
Gasoline	<5丁	< 2 \	rou diesery
Spike level	0.4	96	75
BFB	84	86	75

	s 5\$3		
ICF ID	LON-2 <del>102</del> -2S07	LON-SS03-SD01	LON-SS03-SD02
F&BI Number	1808	546	548 <i>(</i>
Sample Type	soil	soil	soil k
Date Received	9/4/93	8/25/93	8/25/93
% Dry Weight	93	88	88
Sequence Date	#5-09/08/93	#5-08/25/93	#5-08/25/93
Leaded Gas			
JP-4	< 100	< 100	< 60
Lube Oil	< 200	< 200	<120
Diesel	45000 13,700J	£100260	< 60
Spike Level			
Unknown Semi-volatile			
Pentacosane	150	112	114
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-09/07/93	#1&2-08/25/93	#1&2-08/25/93
CCI4	*1&2-09/07/33 <0.1	#102-06/25/55	#102-00/25/55
TCA	<0.1		
Benzene	< 0.02	< 0.02	< 0.02
TCE	< 0.1	0.02	:
Toluene	<0.02	< 0.02	< 0.02
PCE	0.5	<b>\0.02</b>	₹0.02
Ethylbenzene	0.2	< 0.02	< 0.02
Xylenes	0.2 0.6 J	< 0.04	< 0.04
Gasoline	13 diesel T	<2J	<2 T
	13 diesei <b>V</b>	~2 V	~2 V
Spike level BFB	113	89	85
DFD	113	OJ	oo

ICF ID	LON-SS03-SW01	LON-SS03-SW02	LON-SS03-SW02
F&BI Number	549	550	552
Sample Type	water	water	water
Date Received	8/25/93	8/25/93	8/25/93
% Dry Weight	<b>#</b> F 00/07/00	#F 00/07/00	
Sequence Date	#5-08/27/93	#5-08/27/93	
Leaded Gas	.1000	.4000	
JP-4	< 1000	<1000	
Lube Oil	< 2000	< 2000	
Diesel	< 1000	<1000	
Spike Level			
Unknown Semi-volatile		4.4.0	
Pentacosane	97	113	
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			#3&4-08/25/93
CCI4			
TCA			
Benzene			<1
TCE			:
Toluene			<1
PCE			
Ethylbenzene			<1
Xylenes			< 2
Gasoline			\$50 100J
Spike level			-
BFB			84
<del></del>			<del>-</del> -

LON-SS03-SW02 ICF ID F&BI Number 554 water Sample Type 8/25/93 Date Received % Dry Weight Sequence Date Leaded Gas JP-4 Lube Oil Diesel Spike Level Unknown Semi-volatile Pentacosane Sequence Date PCB 1221 PCB 1232 **PCB 1016** PCB 1242 PCB 1248 PCB 1254 PCB 1260 Spike Level Dibutyl Chlorendate Sequence Date alpha-BHC beta-BHC gamma-BHC delta-BHC Heptachlor Aldrin Heptachlor Epoxide Endosulfan I DDE Dieldrin Endrin Endosulfan II DDD Endrin Aldehyde DDT Endosulfan Sulfate Endrin Ketone Methoxy Chlor Chlordane Dibutyl Chlorendate Spike Level #3&4-08/25/93 Vol Sequence CCI4 **TCA** < 1 Benzene TCE Toluene < 1 PCE Ethylbenzene < 1 **Xylenes** < 2 <501000 Gasoline

94

Spike level BFB ANALYTICAL DATA SHEETS FOR THE POL STORAGE (SS04)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

hemlab Ref.# :93.4355-6 Client Sample ID :LON-SS04-S01

Matrix :SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name

:RAY MORRIS :DEW LINE

Project# PWSID

: LONELY :UA

WORK Order

:70111 :10/13/93

Report Completed

Collected :08/24/93 Received

@ 15:05 hrs :08/26/93 @ 12:00 hrs

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND JERRY M. THE EPA 8270 ANALYSIS WAS

NOT PERFORMED BECAUSE THE HOLDING TIME WAS EXCEEDED.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.100	U	mg/Kg					
	Bromobenzene	0.100	Ü	mg/Kg	EPA 8260			09/14	KWM
	Bromochloromethane	0.100	U	mg/Kg	EPA 8260			09/14	KWM
	Bromodichloromethane	0.100	Ü	mg/Kg	EPA 8260			09/14	KWM
	Bromoform	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	Bromomethane	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	n-Butylbenzene	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	sec-Butylbenzene	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	tert-Butylbenzne	0.100	IJ	mg/Kg	EPA 8260		08/26		KWM
	Carbon Tetrachloride	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	Chlorobenzene	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	Chloroethane	0.100	U	mg/Kg	EPA 8260		08/26		KWM
	Chloroform	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	Chloromethane	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	2-Chlorotoluene	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	4-Chlorotoluene	0.100	Ü	mg/Kg	EPA 8260 EPA 8260		08/26		KWM
	Dibromochloromethane	0.100	Ü	mg/Kg			08/26		KWM
	12Dibromo3Chloropropane	0.100	Ü	mg/Kg	EPA 8260 EPA 8260		08/26		KWM
	1,2-Dibromoethane	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	Dibromomethane	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	1,2-Dichlorobenzene	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	1,3-Dichlorobenzene	0.100	Ū	mg/Kg	EPA 8260		08/26		KWM
	1,4-Dichlorobenzene	0.100	Ü	mg/Kg	EPA 8260		08/26		KWM
	Dichlorodifluoromethane	0.100	Ū	mg/Kg	EPA 8260		08/26		KWM
	1,1-Dichloroethane	0.100		mg/Kg	EPA 8260		08/26		KWM
	1,2-Dichloroethane	0.100		mg/Kg	EPA 8260		08/26		KWM
	1,1-Dichloroethene	0.100		mg/Kg	EPA 8260		08/26		KWM
	cis-1,2-Dichloroethene	0.100		mg/Kg	EPA 8260		08/26		KWM
	trans1,2-Dichloroethene	0.100		mg/Kg	EPA 8260		08/26		KWM
	1,2-Dichloropropane	0.100		mg/Kg	EPA 8260		08/26		KWM
	1,3-Dichloropropane	0.100		mg/Kg	EPA 8260		08/26		KWM
	2,2-Dichloropropane	0.100		mg/Kg	EPA 8260		08/26		KWM
	1,1-Dichloropropene	0.100		mg/Kg	EPA 8260		08/26		KWM
	Ethylbenzene	0.100		mg/Kg	EPA 8260		08/26 08/26		KWM
	Hexachlorobutadiene	0.100		mg/Kg	EPA 8260		08/26		KWM
-	Isopropylbenzene	0.100		mg/Kg	EPA 8260		08/26		KWM
				٠. ي	<b>—</b> 0200		00/20	09/14	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4355-6 5633 B STREET Client Sample ID :LON-SS04-S01 ANCHORAGE, AK 99518 TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 561-5301 p-Isopropyltoluene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM Methylene Chloride 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM Napthalene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM n-Propylbenzene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM Styrene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM 1112-Tetrachloroethane 0.100 U mg/Kq EPA 8260 08/26 09/14 KWM 1122-Tetrachloroethane 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM Tetrachloroethene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM Toluene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM 1,2,3-Trichlorobenzene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM 1,2,4-Trichlorobenzene 0.100 U mg/Kg **EPA** 8260 08/26 09/14 KWM 1,1,1-Trichloroethane 0.100 U mg/Kq EPA 8260 08/26 09/14 KWM 1,1,2-Trichloroethane 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM Trichloroethene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM Trichlorofluoromethane 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM 1,2,3-Trichloropropane 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM 1,2,4-Trimethylbenzene 0.100 H mg/Kg EPA 8260 08 - 26 09 / 14KWM 1,3,5-Trimethylbenzene 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM Vinyl Chloride 0.100 U mg/Kg EPA 8260 08/26 09/14 KWM p+m-Xylene 0.100 mg/Kg EPA 8260 08/26 09/14 KWM o-Xylene 0.100 П mg/Kg EPA 8260 08/26 09/14 KWM Sample Preparation EPA 3050 Digest Total Metals Analysis ---ICP Screen, ICF EPA n/a Aluminum 2400 mg/Kg EPA 6010 08/31 09/02 DFL Antimony 51 U mg/Kg EPA 6010 08/31 09/02 DFL Arsenic 51 U mg/Kg EPA 6010 08/31 09/02 DFL Barium 72 mg/Kg EPA 6010 08/31 09/02 DFL Beryllium 2.6 U mg/Kg EPA 6010 08/31 09/02 DFL Cadmium 2.6 U mq/Ka EPA 6010 08/31 09/02 DFL Calcium 45000 mg/Kg EPA 6010 08/31 09/02 DFL Chromium 3.4 mg/Kg EPA 6010 08/31 09/02 DFL Cobalt 5.1 U mg/Kg EPA 6010 08/31 09/02 DFL Copper 3.2 mg/Kg EPA 6010 08/31 09/02 DFL Iron 11000 mg/Kq EPA 6010 08/31 09/02 DFL Lead 5.1 U mg/Kg EPA 6010 08/31 09/02 DFL Magnesium 25000 mg/Kg EPA 6010 08/31 09/02 DFL Manganese 130 mg/Kg EPA 6010 08/31 09/02 DFL Molybdenum 2.6 U mg/Kg EPA 6010 08/31 09/02 DFL Nickel 5.1 mg/Kg EPA 6010 08/31 09/02 DFL Potassium 420 mg/Kg EPA 6010 08/31 09/06 DLG Selenium 51 U mg/Kg EPA 6010 08/31 09/02 DFL Silver 26 U mg/Kq EPA 6010 08/31 09/02 DFL Sodium 140 mg/Kg EPA 6010 08/31 09/06 DFL Thallium 0.26 11 mg/Kg EPA 7841 08/30 09/01 KAW Vanadium 25 mg/Ka EPA 6010 08/31 09/02 DLG Zinc 12 ma/Ka EPA 6010 08/31 09/02 TOC, Soil 8510 PSEP Ref Lab mg/Kg





ENVIRONMENTAL LABORATORY SERVICES

nemlab Ref.#

Client Name

Ordered By

Project Name

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Sample ID :LON-SS04-SW01

:ICF KAISER ENGINEERING

:93.4355-3

Matrix

:WATER

WORK Order :70111

Report Completed :10/13/93

:RAY MORRIS :DEW LINE

Collected Received

0 14:41 hrs :08/24/93 :08/26/93 @ 12:00 hrs

Project# : LONELY PWSID :UA

Technical Director: STEPHEN C. EDE

Released By : The C. Ele

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND JERRY M. J = INDICATES AN ANALYTE

WHOSE CONCENTRATION IS ESTIMATED BECAUSE THE ANALYTE'S CONCENTRATION

IS DETECTED BELOW THE CALIBRATION RANGE.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.562	D	mg/L	EPA 8260		00/00	09/08	TETTIM
	Bromobenzene	0.050	U	mg/L	EPA 8260			09/08	KWM
	Bromochloromethane	0.050	U	mg/L	EPA 8260			09/08	KWM
	Bromodichloromethane	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Bromoform	0.050	Ū	mg/L	EPA 8260				KWM
	Bromomethane.	0.050	Ū	mg/L				09/08	KWM
	n-Butylbenzene	0.050	ŭ	mg/L	EPA 8260			09/08	KWM
	sec-Butylbenzene	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	tert-Butylbenzne	0.050	Ŭ	mg/L	EPA 8260			09/08	KWM
	Carbon Tetrachloride	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Chlorobenzene	0.050	Ū	mg/L	EPA 8260			09/08	KWM
	Chloroethane	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Chloroform	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Chloromethane	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	2-Chlorotoluene	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	4-Chlorotoluene	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	Dibromochloromethane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	12Dibromo3Chloropropane	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	1,2-Dibromoethane	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Dibromomethane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	1,2-Dichlorobenzene	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	1,3-Dichlorobenzene	0.050	Ū	mg/L	EPA 8260		09/08		KWM
	1,4-Dichlorobenzene	0.050	Ū	mg/L	EPA 8260		09/08		KWM
	Dichlorodifluoromethane	0.050	Ü	mg/L	EPA 8260		09/08 09/08		KWM
	1,1-Dichloroethane	0.050	Ū	mg/L	EPA 8260		09/08		KWM KWM
	1,2-Dichloroethane	0.050	U	mg/L	EPA 8260		09/08		KWM
	1,1-Dichloroethene	0.050	U	mg/L	EPA 8260		09/08		KWM
	cis-1,2-Dichloroethene	1.02	D	mg/L	EPA 8260		09/08		KWM
	trans1,2-Dichloroethene	0.050	U	mg/L	EPA 8260		09/08		KWM
	1,2-Dichloropropane	0.050	U	mg/L	EPA 8260		09/08		KWM
	1,3-Dichloropropane	0.050	U	mg/L	EPA 8260		09/08		KWM
	2,2-Dichloropropane	0.050	U	mg/L	EPA 8260	•	09/08		KWM
	1,1-Dichloropropene	0.050	U	mg/L	EPA 8260		09/08		KWM
	Ethylbenzene	0.050	U	mg/L	EPA 8260		09/08		KWM
	Hexachlorobutadiene	0.050	U	mg/L	EPA 8260		09/08		KWM
				<b>2.</b>	ozov		0 2/ 00	0 // 00	Wall



REPORT of ANALYSIS ILL

ENVIRONMENTAL LABORATORY SERVICES

5633 B STR Chemlab Ref.# :93.4355-3 ANCHORAGE, AK 99518 Client Sample ID :LON-SS04-SW01 TEL: (907) 562-2343 Matrix FAX: (907) 561-5301 :WATER Isopropylbenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM p-Isopropyltoluene 0.050 U mq/L EPA 8260 09/08 09/08 KWH Methylene Chloride 0.161 D mg/L EPA 8260 09/08 09/08 KWM Napthalene 0.050 U mg/L EPA 8260 09/08 09/08 KWM n-Propylbenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM Styrene 0.050 U 09/08 09/08 mq/LEPA 8260 KWM 1112-Tetrachloroethane 0.050 IJ mg/L EPA 8260 09/08 09/08 KWM 1122-Tetrachloroethane 0.050 U mg/L EPA 8260 09/08 09/08 KWM Tetrachloroethene 1.83 D mq/L EPA 8260 09/08 09/08 KWM Toluene 1.22 D mg/L EPA 8260 09/08 09/08 KWM 1.2.3-Trichlorobenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM 1,2,4-Trichlorobenzene 0.050 H mg/L EPA 8260 09/08 09/08 KWM 1,1,1-Trichloroethane 0.050 U mg/LEPA 8260 09/08 09/08 KWM 1,1,2-Trichloroethane 0.050 mg/L EPA 8260 09/08 09/08 KWM Trichloroethene 0.285 D mg/L EPA 8260 09/08 09/08 KWM Trichlorofluoromethane 0.050 U mq/L EPA 8260 09/08 09/08 KWM 1,2,3-Trichloropropane 0.050 11 mg/L EPA 8260 09/08 09/08 KWM 1,2,4-Trimethylbenzene 0.050 H mg/L EPA 8260 09/08 09/08 KWM 1,3,5-Trimethylbenzene 0.050 U mq/L EPA 8260 09/08 09/08 KWM Vinyl Chloride 0.050 H mg/L EPA 8260 09/08 09/08 KWM p+m-Xylene 0.262 D mg/L EPA 8260 09/08 09/08 KWM o-Xylene mg/L .... 0.256 EPA 8260 09/08 09/08 KWM Semivolatile Organics **EPA** 8270 Phenol 0.0276 J mg/L EPA 8270 08/30 09/06 MTT bis(2-Chloroethyl)ether 0.029 U mg/L EPA 8270 08/30 09/06 MIT 2-Chlorophenol 0.029 U mg/L EPA 8270 08/30 09/06 MTT 1,3-Dichlorobenzene 0.029 H mg/L **EPA** 8270 08/30 09/06 MTT 1,4-Dichlorobenzene 0.029 U mg/L **EPA** 8270 08/30 09/06 MTT Benzyl Alcohol 0.029 U mg/L**EPA** 8270 08/30 09/06 MTT 1,2-Dichlorobenzene 0.029 П mg/L EPA 8270 08/30 09/06 MTT 2-Methylphenol 0.029 U mq/L EPA 8270 08/30 09/06 MTT bis(2-Chloroisopropyl)e 0.029 U mq/L EPA 8270 08/30 09/06 MTT 4-Methylphenol 0.110 mg/L **EPA** 8270 08/30 09/06 MTT n-Nitroso-di-n-Propylam 0.029 mg/L EPA 8270 08/30 09/06 MTT Hexachloroethane 0.029 U mg/L EPA 8270 08/30 09/06 MTT Nitrobenzene 0.029 U mq/L EPA 8270 08/30 09/06 HTT Isophorone 0.029 U mg/L EPA 8270 08/30 09/06 MTT 2-Nitrophenol 0.029 U mg/L EPA 8270 08/30 09/06 MTT 2,4-Dimethylphenol 0.029 U mq/L EPA 8270 08/30 09/06 MTT Benzoic Acid 0.029 U mg/L EPA 8270 08/30 09/06 MTT bis(2-Chloroethoxy)Meth 0.029 U mg/L **EPA** 8270 08/30 09/06 MTT 2,4-Dichlorophenol 0.029 U mg/L EPA 8270 08/30 09/06 MTT 1,2,4-Trichlorobenzene 0.029 U mg/L EPA 8270 08/30 09/06 MTT Naphthalene 0.0188 J mq/L EPA 8270 08/30 09/06 MIT 4-Chloroaniline 0.029 U mg/L EPA 8270 08/30 09/06 MTT Hexachlorobutadiene 0.029 U mg/L EPA 8270 08/30 09/04 MTT 4-Chloro-3-Methylphenol 0.029 U mq/L EPA 8270 08/30 09/04 MTT 2-Methylnaphthalene 0.029 U mq/L EPA 8270 08/30 09/04 MTT Hexachlorocyclopentadie 0.029 U mg/L EPA 8270 08/30 09/04 MTT 2,4,6-Trichlorophenol 0.029 mg/L **EPA** 8270 08/30 09/04





ENVIRONMENTAL LABORATORY SERVICES

SINCE 1908		REPO	RT of ANA	LYSTS			
Chemlab Ref.# :93.4355-3					, /	5633 B ST	REET
Client Sample ID :LON-SS04-SW(	)1					ANCHORAGE, AK	99518
Matrix :WATER	•				(healtheil/ m.	TEL: (907) 562 FAX: (907) 56	!-2343 !-5301
					- WW	Wrutz-"(501,50	-5501
2,4,5-Trichlorophenol	0.029	11	/7				
2-Chloronaphthalene	0.029		mg/L		8270	08/30 09/04	MIT
2-Nitroaniline		U	mg/L		8270	08/30 09/04	MTT
	0.029	U	mg/L		8270	08/30 09/04	MTT
Dimethylphthalate	0.029	U	mg/L		8270	08/30 09/04	MTT
Acenaphthylene	0.029	U	mg/L	EPA	8270	08/30 09/04	MTT
2,6-Dinitrotoluene	0.029	U	mg/L	EPA	8270	08/30 09/04	HTT
3-Nitroaniline	0.029	U	mg/L	EPA	8270	08/30 09/04	MIT
Acenaphthene	0.029	U	mg/L		8270	08/30 09/04	HTT
2,4-Dinitrophenol	0.029	U	mg/L		8270	08/30 09/04	
4-Nitrophenol	0.029	Ū	mg/L		8270	08/30 09/04	MTT
Dibenzofuran	0.029	บ	mg/L		8270		MTT
2,4-Dinitrotoluene	0.029	บ	mg/L		8270	08/30 09/04	HTT
Diethylphthalate	0.029	บ				08/30 09/04	HTT
4-Chlorophenyl-Phenylet	0.029		mg/L		8270	08/30 09/04	HTT
Fluorene		U	mg/L		8270	08/30 09/04	MTT
4-Nitroaniline	0.029	Ü	mg/L		8270	08/30 09/04	MTT
	0.029	U	mg/L		8270	08/30 09 <b>/04</b>	MTT
4,6-Dinitro-2-Methylphe	0.029	U	mg/L		8270	08/30 09/04	MTT
n-Nitrosodiphenylamine	0.029	U	mg/L	EPA	8270	08/30 09/04	HTT
4-Bromophenyl-Phenyleth	0.029	U	mg/L	EPA	8270	08/30 09/04	MTT
Hexachlorobenzene	0.029	U	mg/L	EPA	8270	08/30 09/04	MIT
Pentachlorophenol	0.029	บ	mg/L		8270	08/30 09/04	HIT
Phenanthrene	0.029	υ	mg/L ···		8270	08/30 09/04	HTT
Inthracene	0.029	Ū	mg/L		8270	08/30 09/04	
di-n-Butylphthalate	0.029	Ü	mg/L		8270		MIT
Fluoranthene	0.029	Ü	mg/L			08/30 09/04	HIT
Pyrene	0.029	Ü			8270	08/30 09/04	MII
Butylbenzylphthalate	0.029		mg/L		8270	08/30 09/04	HIT
3,3-Dichlorobenzidine		Ü	mg/L		8270	08/30 09/04	MTT
	0.029	Ü	mg/L		8270	08/30 09/04	MIT
Benzo(a)Anthracene	0.029	U	mg/L		8270	08/30 09/04	MTT
Chrysene	0.029	U	mg/L		8270	08/30 09/04	HTT
bis(2-Ethylhexyl)Phthal	0.029	U	mg/L	EPA	8270	08/30 09/04	MTT
di-n-Octylphthalate	0.029	U	mg/L	EPA	8270	08/30 09/04	HTT
Benzo(b)Fluoranthene	0.029	U	mg/L	EPA	8270	08/30 09/04	MIT
Benzo(k)Fluoranthene	0.029	U	mg/L	EPA	8270	08/30 09/04	HTT
Benzo(a)Pyrene	0.029	U	mg/L		8270	08/30 09/04	HIT
Indeno(1,2,3-cd)Pyrene	0.029	U	mg/L		8270	08/30 09/04	HIT
Dibenz(a,h)Anthracene	0.029	บ	mg/L		8270	08/30 09/04	
Benzo(g,h,i)Perylene	0.029		mg/L		8270		MTT
		•	129/ 2	A	0270	08/30 09/04	MTT
Total Metals Analysis					_		
ICP Screen, ICF					- ⊡PA n/a		
Aluminum	0.13		na /1				
Antimony	0.10	11	mg/L		6010	09/02 09/06	DLG
Arsenic		U	mg/L		6010	09/02 09/06	DLG
Barium	0.10	U	mg/L		6010	09/02 09/06	DLG
Beryllium	0.34	••	mg/L		6010	09/02 09/06	DLG
	0.050	Ü	mg/L		6010	09/02 09/06	DLG
Cadmium	0.050	U	mg/L	EPA	6010	09/02 09/06	DLG
Calcium	95		mg/L	EPA	6010(x)-J.	09/02 09/06	DLG
Chromium	0.050	U	mg/L		6010	09/02 09/06	DLG
Cobalt	0.10	U	mg/L		6010	09/02 09/06	DLG
opper	0.050	U	mg/L		6010	09/02 09/06	DLG
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ENVIRONMENTAL LABORATORY SERVICES

REPORT OF ANALYSIS SEE 5633 B STREET

Chemlab Ref.# Client Sample ID Matrix	:93.4355-3 :LON-SS04-SW01 :WATER	, u.a.		(3)	5633 B STREET ANCHORAGE. AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301
Iron Lead	0.1	26 10 U	mg/L	EPA 6010	09/02 09/06 DLG

MAILE :WAILE				(Qualifini)	Grownus
Iron	26		mg/L	EPA 6010 (3) 0.10	09/02 09/06 DLG
Lead	0.10	U	mg/L	EPA 6010	09/02 09/06 DLG
Magnesium	35	•	mg/L	EPA 6010	09/02 09/06 DLG
Manganese	3.1		mg/L	EPA 6010	09/02 09/06 DLG
Molybdenum	0.050	U	mg/L	EPA 6010	09/02 09/06 DLG
Nickel	0.050	Ü	mg/L	EPA 6010	09/02 09/06 DLG
Potassium	8.3		mg/L	EPA 6010	09/15 09/17 DFL
Selenium	0.10	U	mg/L	EPA 6010	09/02 09/06 DLG
Silver	0.050	Ü	mg/L	EPA 6010(J)-J.1	09/02 09/06 DLG
Sodium	83	·	mg/L	EPA 6010	09/15 09/17 DFL
Thallium	0.0050	U	mg/L	EPA 7841(5)-5.1	09/03 09/08 BMW
Vanadium	0.050	Ü	mg/L	EPA 6010	09/02 09/06 DLG
Zinc	0.050	U	mg/L	EPA 6010	
	0.030	U	my/L	EPA 6010	09/15 09/17 DFL
Dissolved Metals Analys				_	
ICP Screen, ICF				EPA n/a	
Aluminum	0.10	U.	mg/L	EPA 6010(J) - G. /	09/02 09/06 DLG
Antimony	0.10	Ü	mg/L	EPA 6010	09/02 09/06 DLG
Arsenic	0.10	ŭ	ng/L	EPA 6010	09/02 09/06 DLG
Barium	0.25	Ū	mg/L	EPA 6010	09/02 09/06 DLG
Beryllium	0.050	U	mg/L	EPA 6010	09/02 09/06 DLG
Cadmium	0.050	Ü	mg/L ····	EPA 6010	09/02 09/06
Calcium	97	•	ng/L	EPA 6010	09/02 09/06
Chromium	0.050	U	mg/L	EPA 6010	09/02 09/06 DLG
Cobalt	0.10	Ü	ng/L	EPA 6010	09/02 09/06 DLG
Copper	0.050	Ü	mg/L	EPA 6010	09/02 09/06 DLG
Iron	8.5	•	mg/L	EPA 6010(5) 5 + @\$	09/02 09/06 DLG
Lead	0.10	U	ng/L	EPA 6010	09/02 09/06 DLG
Magnesium	36	•	mg/L	EPA 6010	09/02 09/06 DLG
Manganese	3.0		mg/L	EPA 6010	09/02 09/06 DLG
Molybdenum	0.050	U	mg/L	EPA 6010	09/02 09/06 DLG
Nickel	0.050	IJ	mg/L	EPA 6010	09/02 09/06 DLG
Potassium	8.1	U	mg/L	EPA 6010	09/02 09/08 DLG 09/02 09/17 DFL
Selenium	0.10	U	mg/L	EPA 6010	09/02 09/06 DLG
Silver	0.050	Ü	mg/L	EPA 6010(5)-J.	09/02 09/06 DLG
Sodium	80	U	mg/L	EPA 6010	09/02 09/06 DLG 09/02 09/17 DFL
Thallium	0.0050	U	mg/L	EPA 7841	
Vanadium	0.050	Ü	mg/L	EPA 6010	09/03 09/08 BMW 09/02 09/06 DLG
Zinc	0.22	U	mg/L	EPA 6010	
	0.22		1119/12	Er Out	09/02 09/06 DLG
TOC, Nonpurgable				EPA 9060 n/a	
TOC Range	51.4-55.1		mg/L	EPA 9060	09/07 CMR
TOC Concentration	52.9		mg/L	EPA 9060	09/07 CMR
					os, o. cint
Residue, Non-Filterable	130		mg/L	EPA 160.2	08/31 TAV
Residue,Filterable(TDS)	681		mg/L	EPA 160.1 500	09/01 09/02 RJK
			<b>J.</b> —		,,

UA = Unavailable NA = Not Analyzed

LT = Less Than GT = Greater Than



See Special Instructions Above

^{**} See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.#

:93.4355-5

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518

Matrix

:WATER

Client Sample ID :LON-SS04-SW01 DUPLICATE

TEL: (907) 562-2343 FAX: (907) 561-5301

WORK Order

:70111

Client Name Ordered By

:ICF KAISER ENGINEERING :RAY MORRIS

Report Completed :10/13/93

Project Name

:DEW LINE

Project#

:LONELY

Collected

:08/24/93 @ 14:41 hrs

PWSID

:UA

Received

:08/26/93 @ 12:00 hrs

Technical Director: STEPHEN, C. FDE Released By : Mark

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND JERRY M.

Pa	erameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Al An Ar Ba Be Ca Ch Co Co Ir Lea Mar Moi Sei Soo Tha Van Zir	ad gnesium nganese lybdenum ckel tassium lenium lver dium allium nadium	0.0050	υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010	n/a	09/02 09/02 09/02 09/02 09/02 09/02 09/02 09/02	09/06 09/06 09/06 09/06 09/06	DLG DLG DLG DLG DLG DLG DLG DLG DLG DLG
ICH Alu Ant Ars Bar Ber Cac Cal Chr Cob	ssolved Metals Analys Screen, ICF uminum timony senic cium ryllium dmium Lcium comium palt oper	0.11 0.10 0.10 0.25 0.050 0.050 99 0.050 0.10	U U U U U U U U U U U U U U U U U U U	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010		09/02 09/02 09/02 09/02 09/02 09/02 09/02 09/02 09/02	09/06 09/06 09/06 09/06 09/06 09/06 09/06	DLG DLG DLG DLG DLG DLG DLG DLG DLG



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4355-5 5633 B ANCHORAGE, AK 99518 Client Sample ID :LON-SS04-SW01 DUPLICATE TEL: (907) 562-2343 Matrix :WATER FAX: (907) 561-5301 Iron 8.2 mg/L EPA 6010 09/02 09/06 Lead 0.10 U mg/L EPA 6010 09/02 09/06 DLC Magnesium 39 mg/L EPA 6010 09/02 09/06 DLG Manganese 3.0 mg/L EPA 6010 09/02 09/06 DLG Molybdenum 0.050 U mg/L EPA 6010 09/02 09/06 DLG Nickel 0.050 mg/L EPA 6010 09/02 09/06 DLG Potassium 8.6 mg/L EPA 6010 09/02 09/17 DLG Selenium 0.10 U mg/L EPA 6010 09/02 09/06 DLG Silver 0.050 U mg/L EPA 6010 09/02 09/06 DLG Sodium 82 mg/L EPA 6010 09/02 09/17 DLG Thallium mg/L EPA 7841 Vanadium 0.050 U mg/L EPA 6010 09/02 09/06 DLG Zinc 0.22 mg/L EPA 6010 09/02 09/06 DLG

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.#

REPORT of ANALYSIS :93.4355-4

00

Client Sample ID :LON-SS04-SW01 SPIKE

Matrix

:WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS :DEW LINE

Project# PWSID

:LONELY :UA

WORK Order :70111

Report Completed :10/13/93 Collected

:08/24/93

@ 14:41 hrs

Received

:08/26/93

@ 12:00 hrs

Technical Director: STEPHEN C. EDE

Released By : State

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND JERRY M. J = INDICATES AN ANALYTE WHOSE CONCENTRATION IS ESTIMATED BECAUSE THE ANALYTE'S CONCENTRATION IS DETECTED BELOW THE CALIBRATION RANGE. 8260: FOR SPIKE AND SPIKE DUPLICATE RECOVERY AND RPD, SEE QC SUMMARY.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EDA 0260				
	Benzene	1.05	D	ma /T	EPA 8260				
	Bromobenzene	0.050	Ü	mg/L mg/L	EPA 8260			09/08	KWM
	Bromochloromethane	0.050	Ü	mg/L	EPA 8260			09/08	KWH
	Bromodichloromethane	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Bromoform /	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Bromomethane ²	0.050	Ü	mg/L				09/08	KWM
	n-Butylbenzene	0.050	Ü	mg/L	EPA 8260			09/08	KWM
J	sec-Butylbenzene	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	tert-Butylbenzne	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Carbon Tetrachloride	0.050	Ü	mg/L	EPA 8260			09/08	KWM
	Chlorobenzene	0.493	Ü	mg/L	EPA 8260			09/08	KWM
	Chloroethane	0.050	U	mg/L	EPA 8260		09/08		KWM
	Chloroform	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	Chloromethane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	2-Chlorotoluene	0.050	U		EPA 8260		09/08		KWM
	4-Chlorotoluene	0.050	U	mg/L mg/L	EPA 8260		09/08		KWM
	Dibromochloromethane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	12Dibromo3Chloropropane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	1,2-Dibromoethane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	Dibromomethane	0.050	Ü	mg/L	EPA 8260		09/08		KWH
	1,2-Dichlorobenzene	0.050	Ŭ	mg/L	EPA 8260		09/08		KWM
	1,3-Dichlorobenzene	0.050	บั	mg/L	EPA 8260 EPA 8260		09/08		KWM
	1,4-Dichlorobenzene	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	Dichlorodifluoromethane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	1,1-Dichloroethane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	1,2-Dichloroethane	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	1,1-Dichloroethene	0.407	Ď	mg/L	EPA 8260		09/08		KWM
	cis-1,2-Dichloroethene	1.02	D	mg/L	EPA 8260		09/08		KWM
	trans1,2—Dichloroethene	0.050	Ū	mg/L	EPA 8260		09/08		KWM
	1,2-Dichloropropane	0.050	Ū	mg/L	EPA 8260	, .	09/08		KWM
	1,3-Dichloropropane	0.050	Ü	mg/L	EPA 8260	•	09/08		KWM
	2,2-Dichloropropane	0.050	Ū	mg/L	EPA 8260		09/08		KWM
	1,1-Dichloropropene	0.050	Ü	mg/L	EPA 8260		09/08		KWM
	Ethylbenzene	0.050	Ū	mg/L	EPA 8260		09/08		KWM
			-	9/ 11	LIA 0200		<b>09/</b> 08	03/08	KWM





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS SEE Chemlab Ref.# :93.4355-4 5633 B ST ANCHORAGE, AK 99518 Client Sample ID :LON-SS04-SW01 SPIKE TEL: (907) 562-2343 Matrix :WATER FAX: (907) 561-5301 Hexachlorobutadiene 0.050 U mg/L EPA 8260 09/08 09/08 KWM Isopropylbenzene 0.050 U mq/L EPA 8260 09/08 09/08 KWM p-Isopropyltoluene 0.050 U mq/L EPA 8260 09/08 09/08 KWM Methylene Chloride 0.153 D mg/L EPA 8260 09/08 09/08 KWM Napthalene 0.050 U mg/L EPA 8260 09/08 09/08 KWM n-Propylbenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM Styrene 0.050 U mg/L EPA 8260 09/08 09/08 KWM 1112-Tetrachloroethane 0.050 U mg/L EPA 8260 09/08 09/08 KWH 1122-Tetrachloroethane 0.050 U mg/L EPA 8260 09/08 09/08 KWM Tetrachloroethene 1.83 mg/L EPA 8260 09/08 09/08 KWM Toluene 1.69 mg/L EPA 8260 09/08 09/08 KWM 1,2,3-Trichlorobenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM 1,2,4-Trichlorobenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM 1,1,1-Trichloroethane 0.050 U mg/LEPA 8260 09/08 09/08 KWH 1,1,2-Trichloroethane 0.050 U mg/LEPA 8260 09/08 09/08 KWH Trichloroethene 0.728 D mg/L EPA 8260 09/08 09/08 KWH Trichlorofluoromethane 0.050 U mg/L EPA 8260 09/08 09/08 KWM 1,2,3-Trichloropropane 0.050 U EPA 8260 mg/L 09/08 09/08 KWM 1,2,4-Trimethylbenzene 0.050 U Mg/LEPA 8260 09/08 09/08 KWM 1,3,5-Trimethylbenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM Vinyl Chloride 0.050 mg/L EPA 8260 09/08 09/08 KWM p+m-Xylene mg/L ... 0.259 D EPA 8260 09/08 09/08 RAM o-Xylene 0.255 D mg/L EPA 8260 09/08 09/08 Semivolatile Organics EPA 8270 Phenol 0.202 mg/L EPA 8270 08/30 09/07 MTT bis(2-Chloroethyl)ether 0.033 U mg/L EPA 8270 08/30 09/07 MTT 2-Chlorophenol 0.207 mg/L EPA 8270 08/30 09/07 MTT 1,3-Dichlorobenzene 0.033 H mg/L **EPA 8270** 08/30 09/07 MTT 1,4-Dichlorobenzene 0.203 mg/L EPA 8270 08/30 09/07 MTT Benzyl Alcohol 0.033 U mq/L EPA 8270 08/30 09/07 MTT 1,2-Dichlorobenzene 0.033 U mg/L EPA 8270 08/30 09/07 MTT 2-Methylphenol 0.033 U mg/L EPA 8270 08/30 09/07 MTT bis(2-Chloroisopropyl)e 0.033 mg/L EPA 8270 08/30 09/07 MTT 4-Methylphenol 0.097 mg/L EPA 8270 08/30 09/07 MTT n-Nitroso-di-n-Propylam 0.264 mq/L EPA 8270 08/30 09/07 MTT Hexachloroethane 0.033 U mg/L EPA 8270 08/30 09/07 MTT Nitrobenzene 0.033 U mg/L EPA 8270 08/30 09/07 MTT Isophorone 0.033 П mg/L EPA 8270 08/30 09/07 MTT 2-Nitrophenol 0.033 U mg/L EPA 8270 08/30 09/07 MTT 2,4-Dimethylphenol 0.033 U mg/L EPA 8270 08/30 09/07 MTT Benzoic Acid 0.033 U mg/L EPA 8270 08/30 09/07 MTT bis(2-Chloroethoxy)Meth 0.033 U mg/L EPA 8270 08/30 09/07 MTT 2,4-Dichlorophenol 0.033 Ħ mg/L EPA 8270 08/30 09/07 MTT 1,2,4-Trichlorobenzene 0.218 mg/L EPA 8270 08/30 09/07 MTT Naphthalene 0.019 J mg/L EPA 8270 08/30 09/07 MTT 4-Chloroaniline 0.033 U mg/L EPA 8270 08/30 09/07 MTT Hexachlorobutadiene 0.033 U mg/L EPA 8270 08/30 09/07 MTT 4-Chloro-3-Methylphenol 0.227 mg/L EPA 8270 08/30 09/07 MTT 2-Methylnaphthalene 0.033 U mg/L EPA 8270 08/30 09/07 MIT Hexachlorocyclopentadie 0.033 mg/L EPA 8270 08/30 09/07





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS XX Chemlab Ref.# :93.4355-4 5633 B STREET ANCHORAGE, AK 99518 Client Sample ID :LON-SS04-SW01 SPIKE TEL: (907) 562-2343 Matrix :WATER FAX: (907) 561-5301 2,4,6-Trichlorophenol 0.033 mq/L EPA 8270 08/30 09/07 MTT 2,4,5-Trichlorophenol 0.033 U mq/L EPA 8270 08/30 09/07 MTT 2-Chloronaphthalene 0.033 U mq/L EPA 8270 08/30 09/07 2-Nitroaniline MTT 0.033 U mg/L EPA 8270 08/30 09/07 Dimethylphthalate MTT 0.033 U mg/L EPA 8270 08/30 09/07 Acenaphthylene HTT 0.033 U mg/L EPA 8270 08/30 09/07 2,6-Dinitrotoluene MTT 0.033 U mg/L EPA 8270 08/30 09/07 3-Nitroaniline MTT 0,033 mq/L EPA 8270 08/30 09/07 Acenaphthene MTT 0.266 mg/L EPA 8270 08/30 09/07 2,4-Dinitrophenol MTT 0.033 U mg/L EPA 8270 08/30 09/07 MTT 4-Nitrophenol 0.158 mg/L EPA 8270 08/30 09/07 MTT Dibenzofuran 0.033 mg/L EPA 8270 08/30 09/07 MTT 2,4-Dinitrotoluene 0.268 mg/L EPA 8270 08/30 09/07 MTT Diethylphthalate 0.033 U mg/L EPA 8270 08/30 09/07 MTT 4-Chlorophenyl-Phenylet 0.033 U mq/L EPA 8270 08/30 09/07 MTT Fluorene 0.033 U mg/L EPA 8270 08/30 09/07 MTT 4-Nitroaniline 0.033 U mg/L EPA 8270 08/30 09/07 MTT 4,6-Dinitro-2-Methylphe 0.033 U mg/L EPA 8270 08/30 09/07 MIT n-Nitrosodiphenylamine 0.033 IJ mg/L EPA 8270 08/30 09/07 4-Bromophenyl-Phenyleth MTT 0.033 U mg/L EPA 8270 08/30 09/07 Hexachlorobenzene MTT 0.033 mg/L EPA 8270 08/30 09/07 Pentachlorophenol MTT 0.158 mg/L ... EPA 8270 08/30 09/07 MTT Phenanthrene 0.033 U mg/L EPA 8270 08/30 09/07 MTT Anthracene 0.033 U mg/L EPA 8270 08/30 09/07 MTT di-n-Butylphthalate 0.030 J mg/L EPA 8270 08/30 09/07 MTT Fluoranthene 0.033 IJ mg/L EPA 8270 08/30 09/07 MTT Pyrene 0.276 I\pm EPA 8270 08/30 09/07 MTT Butylbenzylphthalate 0.033 U mq/LEPA 8270 08/30 09/07 MTT 3,3-Dichlorobenzidine 0.033 U mg/L EPA 8270 08/30 09/07 MTT Benzo(a)Anthracene 0.033 U mg/L EPA 8270 08/30 09/07 HTT Chrysene 0.033 U mg/L EPA 8270 08/30 09/07 MTT bis(2-Ethylhexyl)Phthal 0.033 U mg/L EPA 8270 08/30 09/07 MTT di-n-Octylphthalate 0.033 U mq/L EPA 8270 08/30 09/07 Benzo(b)Fluoranthene MTT 0.033 - [] mg/L EPA 8270 08/30 09/07 MTT Benzo(k)Fluoranthene 0.033 U mq/L EPA 8270 08/30 09/07 Benzo(a)Pyrene MTT 0.033 U mg/L EPA 8270 08/30 09/07 HTT Indeno(1,2,3-cd)Pyrene 0.033 U mg/L EPA 8270 08/30 09/07 MTT Dibenz(a,h)Anthracene 0.033 U mg/L EPA 8270 08/30 09/07 MTT Benzo(g,h,i)Perylene 0.033 U mg/L EPA 8270 08/30 09/07 MTT Total Metals Analysis ICP Screen, ICF EPA n/a Aluminum 1.17 mq/L EPA 6010 09/02 09/06 DLG Antimony 0.88 mq/L EPA 6010 09/02 09/06 DLG Arsenic 0.92 mg/L EPA 6010 09/02 09/06 DLG Barium 1.33 mg/L EPA 6010 09/02 09/06 DLG Beryllium 0.40 mg/L EPA 6010 09/02 09/06 DLG Cadmium 0.49 mq/L EPA 6010 09/02 09/06 DLG Calcium 111 mg/L EPA 6010 09/02 09/06 DLG Chromium 0.98 mq/L EPA 6010 09/02 09/06 DLG Cobalt 0.97 mq/L EPA 6010 09/02 09/06



DLG



ENVIRONMENTAL LABORATORY SERVICES

SINCE 1908					
Chemlab Ref.#	:93.4355-4	REPORT of A	ANALYSIS XXX		5633 B S1
Client Sample ID		T1 277		ANC	CHORAGE, AK 99518
Matrix	:WATER	IKE			TEL: (907) 562-2343
ndertx	WATER				FAX: (907) 561-5301
Copper	0.9	6	PP. 6040		
Iron	2		EPA 6010		2 09/06 DLG
Lead	0.9		EPA 6010		2 09/06 DLG
Magnesium	130		EPA 6010		2 09/06 DLG
Manganese	4.:	57 🗕	EPA 6010		2 09/06 DLG
Molybdenum	0.96		EPA 6010	09/02	2 09/06 DLG
Nickel	0.9		EPA 6010	09/02	2 09/06 DLG
Potassium	0.9	5/ =	EPA 6010	09/02	2 09/06 DLG
Selenium		∋, ⊷	EPA 6010		
Silver	0.93		EPA 6010		2 09/06 DLG
Sodium	0.13	5/ 🚨	EPA 6010	09/02	09/06 DLG
Thallium		. "	EPA 6010		
Vanadium	0.014		EPA 7841	09/03	09/08 BMW
Zinc	0.99		EPA 6010		09/06 DLG
Z111C		mg/L	EPA 6010	·	
Dissolved Metal	le Applue				
ICP Screen, ICE	rs wigths	-	_		
Aluminum	0.99		EPA	n/a —	
Antimony	0.9		EPA 6010		09/06 DLG
Arsenic	0.02	57 🖴	EPA 6010		09/06 DLG
Barium	1.20		EPA 6010		09/06 DLG
Bervllium '	0.38		EPA 6010		09/06 DLG
Cadmium	0.47		EPA 6010		09/06 DI
Calcium	110		EPA 6010		09/06
Chromium	0.97	-··· <i></i>	EPA 6010		09/06
Cobalt	0.94		EPA 6010		09/06 DL.
Copper	0.91		EPA 6010		09/06 DLG
Iron	9.0		EPA 6010		09/06 DLG
Lead	0.90		EPA 6010		09/06 DLG
Magnesium	130		EPA 6010		09/06 DLG
Manganese	4.0		EPA 6010		09/06 DLG
Molybdenum	0.95		EPA 6010		09/06 DLG
Nickel	0.94		EPA 6010 EPA 6010		09/06 DLG
Potassium	12		EPA 6010		09/06 DLG
Selenium	0.87		EPA 6010 EPA 6010		09/06 DLG
Silver	0.13		EPA 6010		09/06 DLG
Sodium	90		EPA 6010		09/06 DLG
Thallium		₃ / ~	EPA 7841	09/02	09/17 DFL
Vanadium	0.93	mg/L	EPA 6010	00/02	09/06 DŁG
Zinc	1.11		EPA 6010		
	_ · · · ·		TH 0010	09/02	09/06 DLG

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit. D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than GT = Greater Than



See Special Instructions Above



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.#

:93.4355-9

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518

Client Sample ID :LON-SS04-SW01 SPIKE DUPLICATE

TEL: (907) 562-2343 FAX: (907) 561-5301

Matrix

PWSID

:WATER

Client Name Ordered By

:ICF KAISER ENGINEERING :RAY MORRIS

Project Name Project#

:DEW LINE :LONELY :UA

WORK Order :70111

Report Completed :10/13/93 Collected

Received

:08/24/93 @ 14:41 hrs :08/26/93 @ 12:00 hrs

Technical Director: STEPHEN C., EDE

Released By : _

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND JERRY M. 8260: FOR SPIKE AND SPIKE DUPLICATE RECOVERY AND RPD, SEE QC SUMMARY. J = INDICATES AN ANALYTE WHOSE CONCENTRATION IS ESTIMATED BECAUSE THE ANALYTE'S CONCENTRATION IS DETECTED BELOW THE CALIBRATION RANGE.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane' n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chlorotohane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromo3Chloropropane 1,2-Dibromoathane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane	1.05 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	ממממממממממממממממממממממממממ מוסממממממממממ	mg/LL mg/LL mg/LL mg/LL LL LL LL LL LL LL LL LL LL LL LL LL	EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260	Limits	Date 09/08 09/08 09/08 09/08	Date  09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08	Init  KKWH KKWH KKWH KKWH KKWH KKWH KKWH KK
	_	-	mg/L	EPA 8260		09/08	09/08	KWH



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4355-9 5633 B S Client Sample ID :LON-SS04-SW01 SPIKE DUPLICATE ANCHORAGE, AK 99518 TEL: (907) 562-2343 Matrix :WATER FAX: (907) 561-5301 Hexachlorobutadiene 0.050 U mg/L EPA 8260 09/08 09/08 KWE Isopropylbenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWE p-Isopropyltoluene 0.050 U mg/L EPA 8260 09/08 09/08 KWE Methylene Chloride 0.156 D mg/L **EPA 8260** 09/08 09/08 KWE Napthalene 0.050 U mq/L EPA 8260 09/08 09/08 KWM n-Propylbenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM Styrene 0.050 U mg/L EPA 8260 09/08 09/08 KWM 1112-Tetrachloroethane 0.050 U mq/L EPA 8260 09/08 09/08 KWM 1122-Tetrachloroethane 0.050 U EPA 8260 mq/L 09/08 09/08 KWM Tetrachloroethene 1.79 D mg/L EPA 8260 09/08 09/08 KWM Toluene 1.69 D mq/LEPA 8260 09/08 09/08 KWM 1,2,3-Trichlorobenzene 0.050 U mq/LEPA 8260 09/08 09/08 KWM 1,2,4-Trichlorobenzene 0.050 U mq/L EPA 8260 09/08 09/08 KWM 1,1,1-Trichloroethane 0.050 U mq/L EPA 8260 09/08 09/08 KWM 1,1,2-Trichloroethane 0.050 U mg/LEPA 8260 09/08 09/08 KWM Trichloroethene 0.743 D mq/L EPA 8260 09/08 09/08 KWM Trichlorofluoromethane 0.050 U mq/L EPA 8260 09/08 09/08 KWM 1,2,3-Trichloropropane 0.050 U mq/L EPA 8260 09/08 09/08 KWM 1,2,4-Trimethylbenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM 1,3,5-Trimethylbenzene 0.050 U mg/L EPA 8260 09/08 09/08 KWM Vinyl Chloride 0.050 U mq/L EPA 8260 09/08 09/08 KWM p+m-Xylene 0.253 mg/L .... D EPA 8260 09/08 09/08 KWM o-Xylene 0.245 D mq/L EPA 8260 09/08 09/08 ΙM Semivolatile Organics EPA 8270 Phenol 0.194 mg/L EPA 8270 08/30 09/06 MTT bis(2-Chloroethyl)ether 0.032 mg/L EPA 8270 08/30 09/06 MTT 2-Chlorophenol 0.196 EPA 8270 mg/L 08/30 09/06 MTT 1,3-Dichlorobenzene 0.032 U mq/L **EPA 8270** 08/30 09/06 MTT 1,4-Dichlorobenzene 0.148 mq/L EPA 8270 08/30 09/06 MTT Benzyl Alcohol 0.032 U mq/L EPA 8270 08/30 09/06 MTT 1,2-Dichlorobenzene 0.032 U EPA 8270 mq/L08/30 09/06 MTT 2-Methylphenol 0.032 U mg/L EPA 8270 08/30 09/06 MTT bis(2-Chloroisopropyl)e 0.032 U mq/L EPA 8270 08/30 09/06 MTT 4-Methylphenol 0.106 ma/L EPA 8270 08/30 09/06 MTT n-Nitroso-di-n-Propylam 0.194 mq/L EPA 8270 08/30 09/06 MTT Hexachloroethane 0.032 U mg/L **EPA 8270** 08/30 09/06 MTT Nitrobenzene 0.032 U mg/L **EPA 8270** 08/30 09/06 MTT Isophorone 0.032 U mg/L EPA 8270 08/30 09/06 MTT 2-Nitrophenol 0.032 U mq/L EPA 8270 08/30 09/06 MTT 2,4-Dimethylphenol 0.032 U mg/L EPA 8270 08/30 09/06 MTT Benzoic Acid 0.032 U mq/L EPA 8270 08/30 09/06 MTT bis(2-Chloroethoxy)Meth 0.032 U mq/L EPA 8270 08/30 09/06 MTT 2,4-Dichlorophenol 0.032 U mq/L EPA 8270 08/30 09/06 MTT 1,2,4-Trichlorobenzene 0.163 mg/L EPA 8270 08/30 09/06 MTT Naphthalene 0.014 J EPA 8270 mg/L 08/30 09/06 MTT 4-Chloroaniline 0.032 U mg/L EPA 8270 08/30 09/06 MTT Hexachlorobutadiene 0.032 mg/L EPA 8270 08/30 09/06 MTT 4-Chloro-3-Methylphenol 0.243 mq/L EPA 8270 08/30 09/06 MTT 2-Methylnaphthalene 0.032 U mq/L EPA 8270 08/30 09/06 MTT Hexachlorocyclopentadie 0.032 mg/L EPA 8270 08/30 09/06





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS MC Chemlab Ref.# :93.4355-9 5633 B STREET ANCHORAGE, AK 99518 Client Sample ID :LON-SS04-SW01 SPIKE DUPLICATE TEL: (907) 562-2343 Matrix :WATER FAX. (907) 561-5301 2,4,6-Trichlorophenol 0.032 U mq/L EPA 8270 08/30 09/06 MTT 2,4,5-Trichlorophenol 0.032 U mg/LEPA 8270 08/30 09/06 MTT 2-Chloronaphthalene 0.032 IJ mg/L EPA 8270 08/30 09/06 MTT 2-Nitroaniline 0.032 U mg/L EPA 8270 08/30 09/06 MTT Dimethylphthalate 0.032 mg/L EPA 8270 08/30 09/06 MTT Acenaphthylene 0.032 mg/L EPA 8270 08/30 09/06 MTT 2,6-Dinitrotoluene 0.032 mg/LEPA 8270 08/30 09/06 MTT 3-Nitroaniline 0.032 mg/L EPA 8270 08/30 09/06 MTT Acenaphthene 0.204 mg/L EPA 8270 08/30 09/06 MTT 2,4-Dinitrophenol 0.032 mg/L EPA 8270 08/30 09/06 MTT 4-Nitrophenol 0.096 mq/L EPA 8270 08/30 09/06 MTT Dibenzofuran 0.032 U EPA 8270 mg/L08/30 09/06 MTT 2,4-Dinitrotoluene 0.205 mg/L EPA 8270 08/30 09/06 MTT Diethylphthalate 0.032 U mg/L EPA 8270 08/30 09/06 MTT 4-Chlorophenyl-Phenylet 0.032 U mg/L EPA 8270 08/30 09/06 MTT Fluorene 0.032 H mg/L EPA 8270 08/30 09/06 MTT 4-Nitroaniline -0.032 U mg/L EPA 8270 08/30 09/06 MTT 4,6-Dinitro-2-Methylphe 0.032 U mq/L EPA 8270 08/30 09/06 MTT n-Nitrosodiphenylamine 0.032 U mq/LEPA 8270 08/30 09/06 MTT 4-Bromophenyl-Phenyleth 0.032 mg/L EPA 8270 08/30 09/06 MTT Hexachlorobenzene 0.032 mg/L EPA 8270 08/30 09/06 MTT Pentachlorophenol 0.106 mg/L .... EPA 8270 08/30 09/06 MTT Phenanthrene 0.032 H mg/L EPA 8270 08/30 09/06 MTT Anthracene 0.032 U mg/L EPA 8270 08/30 09/06 MTT di-n-Butylphthalate 0.014 J mg/L EPA 8270 08/30 09/06 MTT Fluoranthene 0.032 H mg/LEPA 8270 08/30 09/06 MTT Pyrene 0.228 mg/L EPA 8270 08/30 09/06 MTT Butylbenzylphthalate 0.032 U mg/L EPA 8270 08/30 09/06 MTT 3,3-Dichlorobenzidine 0.032 U mg/L EPA 8270 08/30 09/06 MTT Benzo(a) Anthracene 0.032 U mg/L EPA 8270 08/30 09/06 MTT Chrysene 0.032 H mg/L EPA 8270 08/30 09/06 MIT bis(2-Ethylhexyl)Phthal 0.032 IJ mq/L EPA 8270 08/30 09/06 MTT di-n-Octylphthalate 0.032 U mg/L EPA 8270 08/30 09/06 MTT Benzo(b)Fluoranthene 0.032 U mg/L EPA 8270 08/30 09/06 MTT Benzo(k)Fluoranthene 0.032 U mg/L EPA 8270 08/30 09/06 Benzo(a)Pyrene 0.032 mg/L EPA 8270 08/30 09/06 MTT Indeno(1,2,3-cd)Pyrene 0.032 ti mg/LEPA 8270 08/30 09/06 MTT Dibenz(a,h)Anthracene 0.032 H mg/L EPA 8270

See Special Instructions Above

See Sample Remarks Above

Benzo(g,h,i)Perylene

= Undetected, Reported value is the practical quantification limit.

0.032 U

D = Secondary dilution.

UA = Unavailable

08/30 09/06

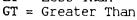
08/30 09/06

MTT

MTT

NA = Not Analyzed

LT = Less Than





EPA 8270

mg/L

ICF ID	LON-SS04-S01	LON-SS04-S02	LON-SS04-S02   led 524 dup Corr And soil by 595
F&BI Number	518	524	524 dup Con An
Sample Type	soil	soil	soil by 595
Date Received	8/25/93	8/25/93	8/25/93
% Dry Weight	98	96	
Sequence Date	#5-08/25/93	#5-08/25/93	#5-08/25/93
Leaded Gas			
JP-4	< 60	< 50	< 50
Lube Oil	< 100	<120	<100
Diesel	<b>4</b> 2000	< 50	<50
Spike Level			
Unknown Semi-volatile			
Pentacosane	122	116	119
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/25/93	#1&2-08/25/93	
CCI4	< 0.02	< 0.02	
TCA	< 0.02	< 0.02	
Benzene	< 0.02	< 0.02	
TCE	< 0.02		•
Toluene	< 0.02	< 0.02	
PCE	0.36	< 0.02	
Ethylbenzene	< 0.02	< 0.02	
Xylenes	< 0.04	< 0.04	
Gasoline	<2 J	<25	
Spike level	<del>-</del>	· = <b>*</b>	
BFB	92	89	
5. 5	02		

	ICF ID	LON-SS04-S02	LON-SS04-S02	لم LON-SS04-SD01
	F&BI Number	524 ms	524 msd	520 (ph. 10)
	Sample Type	soil	soil	soil 5 49 gs
	Date Received	8/25/93	8/25/93	8/25/93
	% Dry Weight			86
ł	Sequence Date	#5-08/25/93	#5-08/25/93	#5-08/25/93
	Leaded Gas			
	JP-4			< 60
	Lube Oil			<120
	Diesel	121	113	< 60
	Spike Level	500	500	
	Unknown Semi-volatile			
	Pentacosane	132	160 outside control limits	116
	Sequence Date	#5-08/25/93	#5-08/25/93	
	PCB 1221			
	PCB 1232			
	PCB 1016			
	PCB 1242			
	PCB 1248			
	PCB 1254	130	119	
	PCB 1260	5	5	
	Spike Level			
	Dibutyl Chlorendate	132	160 outside control limits	
	Sequence Date			
	alpha-BHC			
	beta-BHC			
	gamma-BHC			
	delta-BHC			
į.	Heptachlor			
ŀ	Aldrin			
	Heptachlor Epoxide			
	Endosulfan I			
	DDE Dialdria			
	Dieldrin Endrin			
	Endosulfan II			
	DDD			
	Endrin Aldehyde			
	DDT			
	Endosulfan Sulfate			
	Endrin Ketone			
	Methoxy Chlor			
	Chlordane			
	Dibutyl Chlorendate			
	Spike Level			
	Vol Sequence	#1&2-08/25/93	#1&2-08/25/93	#1&2-08/25/93
	CCI4	101	70	< 0.02
	TCA	108	88	< 0.02
	Benzene	91	98	1.6
	TCE	111	96 ·	24
	Toluene	95	104	2.71.4
	PCE	130	89	6.7 ょ
ı	Ethylbenzene	86	86	2.5 2.0
ł	Xylenes	97	86	2.2 z.5 J
	Gasoline			64 🖚
	Spike level	1	1	
	BFB	94	100	93

			5512
ICF ID	LON-SS04-SD02	LON-SS04-2SD03	LON- <del>SS04</del> -SW01 )
F&BI Number	522	1795	508
Sample Type	soil	soil	water prof 4 as
Date Received	8/25/93	9/4/93	8/25/93 🐧 کر کم
% Dry Weight	75	41	10
Sequence Date	#5-08/25/93	#5-09/08/93	
Leaded Gas			
JP-4	< 60	<120	
Lube Oil	<120	< 240	
Diesel	< 60	<120	
Spike Level			
Unknown Semi-volatile			
Pentacosane	114	102	
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	"4 0 0 00 IOF IOO		#3&4-08/25/93
Vol Sequence	#1&2-08/25/93		#3&4-06/25/93
CCI4	< 0.02		
TCA	< 0.02		<1
Benzene	< 0.02		<b>₹</b> 1
TCE	< 0.02		<1
Toluene	< 0.02 0.02		<b>~</b> 1
PCE			<1
Ethylbenzene	< 0.02		<2
Xylenes	< 0.04		<\$0<100 J
Gasoline	<2 丁		<b>200 -100 4</b>
Spike level	00		84
BFB	89		84

ANALYTICAL DATA SHEETS FOR THE DIESEL SPILLS (SS05)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

hemlab Ref.#

:93.4626-1

Client Sample ID :LON-SS05-2S19-3

Matrix

:SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By

:RAY MORRIS

Project Name

:DEW LINE :LONELY

:UA

Project# PWSID

WORK Order :70635

Report Completed :10/07/93 Collected

Received

:09/04/93 :09/07/93 @ 11:00 hrs

Technical Director: STEPHEN C. EDE

Released By :

EPH PATTERN 1S NOT

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G.

CONSISTENT WITH MIDDLE DISTILLATE FUEL.

Parameter	QC Results Qua	: l Units	Method	Allowable Limits	Ext. Date		Init
Percent Solids Hydrocarbons EPH Hydrocarbons VPH	52.1 419 D 1.00 U	% mg/Kg mg/Kg	SM17 2540G 3510/3550/8100N EPA 5030/8015M	1 (J)-E.1,J.1		09/08 09/16 09/09	EAL DRS WLS

See Special Instructions Above See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit. D = Secondary dilution.

UA = Unavailable NA = Not Analyzed LT = Less Than GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemiab Ref. # :93.4504-10 Client Sample ID :LON-SS05-SD07

Matrix

:SOIL

ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

5533 B STA

Client Name Ordered By

:ICF KAISER ENGINEERING :RAY MORRIS

Project Name :DEW LINE Project# :LONELY PWSID :UA

WORK Order

:70357 Report Completed :11/03/93

Collected :08/25/93 @ 11:55 hrs Received :08/31/93 @ 15:10 hrs

Technical Director: STEPHEN C. FDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits			In <b>it</b>
Volatile Organics				EPA 8260				
Benzene	0.030	IJ	mg/Kg	EPA 8260		09/01	09/04	SGM
Bromobenzene	0.030	U	mg/Kg	EPA 8260			09/04	SGM
Bromocnloromethane	0.030	U	m <b>g/K</b> g	EPA 8260			09/04	SGM
Bromodichloromethane	0.030	U	mg/Kg	EPA 8260			09/04	SGM
Bromoform	0.030	Ü	mg/Kg	EPA 8260			09/04	SGM
Bromomethane	0.030	U	mg/Kg	EPA 8260			09/04	SGM
n-Butylbenzene	0.030	U	mg/Kg	EPA 8260			09/04	SGM
sec-Butylbenzene	0.030	U	mg/Kg	EPA 8260			09/04	SG*
tert-Butylbenzne	0.030	U	mg/Kg	EPA 8260		09/01	09/04	
Carbon Tetrachloride	0.030	U	mg/Kg	EPA 8260		09/01	09/04	
Chlorobenzene	0.030	U	m <b>g/K</b> g	EPA 8260			09/04	SG.
Chloroethane	0.030	U	mg/Kg	EPA 8260		09/01	09/04	S <b>GM</b>
Chloroform	0.030	U	m <b>g/K</b> g	EPA 8260		09/01	09/04	SGM
Chloromethane	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
2-Chlorotoluene	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
4-Chlorotoluene	0.030	U	mg/Kg	EPA 8260			09/04	SGM
Dibromochloromethane	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
12Dibromo3Chloropropane		U	mg/Kg	EPA 8260			09/04	SGM
1,2-Dibromoethane	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
Dibromomethane	0.030	Ü	mg/Kg	EPA 8260		09/01	09/04	SGM
1,2-Dichlorobenzene	0.030	U	mg/Kg	EPA 8260			09/04	SGM
1,3-Dichlorobenzene	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,4-Dichlorobenzene	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
Dichlorodifluoromethane	0.030	U	m <b>g/K</b> g	EPA 8260		09/01	09/04	SGM
1,1-Dichloroethane	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,2-Dichloroethane	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,1-Dichloroethene	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
cis-1,2-Dichloroethene	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
trans1,2-Dichloroethene	0.030	U	mg/Kg	EPA 8260			09/04	SGM
1,2-Dichloropropane	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,3-Dichloropropane	0.030	U	m <b>g/K</b> g	EPA 8260		09/01	09/04	S <b>GM</b>
2,2-Dichloropropane	0.030	Ü	mg/Kg	EPA 8260		09/01	09/04	SGM
1,1-Dichloropropene	0.030	U	mg/Kg	EPA 8260			09/04	S <b>GM</b>
Ethylbenzene	0.030	U	mg/Kg	EPA 8260	-		09/04	S <b>GM</b>
Hexachlorobutadiene	0.030	U	mg/Kg	EPA 8260			09/04	S <b>GM</b>
Isopropylbenzene	0.030	U	mg/Kg	EPA 8260			09/04	SGM
p-Isopropyltoluene	0.030	U	mg/Kg	EPA 8260		09/01	09/04	SGM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS emlab Ref.# :93.4504-10 5633 B STREET ANCHORAGE, AK 99518 Client Sample ID :LON-SS05-SD07 TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 561-5301 Methylene Chloride 0.030 U EPA 8260 mg/Ka 09/01 09/04 SGM Napthalene 0.030 U EPA 8260 mg/Kg 09/01 09/04 SGM n-Propylbenzene 0.030 Π mg/Kg EPA 8260 09/01 09/04 SGM Styrene 0.030 EPA 8260 H mg/Kg 09/01 09/04 SGM 1112-Tetrachloroethane 0.030 U EPA 8260 mg/Kg 09/01 09/04 SGM 1122-Tetrachloroethane 0.030 mg/Kg EPA 8260 09/01 09/04 SGM Tetrachloroethene 0.030 mg/Kg EPA 8260 09/01 09/04 SGM Toluene 0.030 U EPA 8260 mg/Kg 09/01 09/04 SGM 1,2,3-Trichlorobenzene 0.030 H mg/Kg EPA 8260 09/01 09/04 SGM 1,2,4-Trichlorobenzene 0.030 11 mg/Kg EPA 8260 09/01 09/04 SGM 1,1,1-Trichloroethane 0.030 mg/Kg EPA 8260 09/01 09/04 SGM 1.1.2-Trichloroethane 0.030 11 EPA 8260 mg/Kg 09/01 09/04 SGM Trichloroethene 0.030 U mq/Kq EPA 8260 09/01 09/04 SGM Trichlorofluoromethane 0.030 U ma/Ka EPA 8260 09/01 09/04 SGM 1,2,3-Trichloropropane 0.030 mq/Kq EPA 8260 09/01 09/04 SGM 1,2,4-Trimethylbenzene 0.030 11 mg/Kg EPA 8260 09/01 09/04 SGM 1,3,5-Trimethylbenzene 0.030 U mg/Ka EPA 8260 09/01 09/04 SGM Vinyl Chloride 0.030  $\Box$ EPA 8260 mg/Kg 09/01 09/04 SGM p+m-Xylene 0.030 U EPA 8260 mg/Kg 09/01 09/04 SGM o-Xylene 0.030 П mq/Kq EPA 8260 09/01 09/04 SGM Semivolatile Organics EPA 8270 Phenol 2.00 U mq/Kq EPA 8270 09/08 10/07 GV pis(2-Chloroethyl)ether 2.00 U ma/Ka EPA 8270 09/08 10/07 GV 2-Chlorophenol 2.00 U ma/Ka EPA 8270 09/08 10/07 GV 1,3-Dichlorobenzene 2.00 U mg/Kg EPA 8270 09/08 10/07 GV 1,4-Dichlorobenzene 2.00 U ma/Ka EPA 8270 09/08 10/07 GV Benzyl Alcohol 2.00 U mg/Kg EPA 8270 09/08 10/07 GV 1,2-Dichlorobenzene 2.00 11 EPA 8270 mg/Kg 09/08 10/07 GV 2-Methylphenol 2.00 U EPA 8270 09/08 10/07 mq/Kq GV bis(2-Chloroisopropyl)e 2.00 U ma/Ka EPA 8270 09/08 10/07 GV 4-Methylphenol 2.00 U mg/Ka EPA 8270 09/08 10/07 GV n-Nitroso-di-n-Propylam 2.00 U EPA 8270 09/08 10/07 mg/Kg GV Hexachloroethane 2.00 U mg/Kg EPA 8270 09/08 10/07 GV Nitrobenzene 2.00 U EPA 8270 mq/Kq 09/08 10/07 GV Isophorone 2.00 U mg/Kg EPA 8270 09/08 10/07 GV 2-Nitrophenol 2.00 H EPA 8270 mg/Kg 09/08 10/07 GV 2,4-Dimethylphenol 2.00 U EPA 8270 mg/Kg 09/08 10/07 GV Benzoic Acid 2.00 U EPA 8270 mg/Kg 09/08 10/07 **GV** bis(2-Chloroethoxy)Meth 2.00 U mg/Kg EPA 8270 09/08 10/07 **GV** 2,4-Dichlorophenol 2.00 U mg/Kg EPA 8270 09/08 10/07 **GV** 1,2,4-Trichlorobenzene 2.00 11 mg/Kg EPA 8270 09/08 10/07 GV Naphthalene 2.00 TT EPA 8270 mg/Kg 09/08 10/07 **GV** 4-Chloroaniline 2.00 11 mg/Kg EPA 8270 09/08 10/07 GV Hexachlorobutadiene 2.00 11 mg/Kg EPA 8270 09/08 10/07 GV 4-Chlcro-3-Methylphenol 2.00 [] mg/Kg EPA 8270 09/08 10/07 GV 2-Methylnaphthalene 2.00 U ma/Ka EPA 8270 09/08 10/07 **GV** Hexachlorocyclopentadie 2.00 ma/Ka EPA 8270 09/08 10/07 GV 2,4,6-Trichlorophenol 2.00 mq/Kq EPA 8270 09/08 10/07 GV 2,4,5-Trichlorophenol 2.00 mg/Kg EPA 8270 09/08 10/07 GV 2-Chloronaphthalene 2.00 EPA 8270 mg/Kg 09/08 10/07 GV





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4504-10 5633 B STF ANCHORAGE, AK 99518 Client Sample ID :LON-SS05-SD07 TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 561-5301 2-Nitroaniline 2.00 U ma/Ka EPA 8270 09/08 10/07 GV Dimethylphthalate 2.00 U mg/Kg EPA 8270 09/08 10/07 GV Acenaphthylene 2.00 IJ mg/Kg EPA 8270 09/08 10/07 GV 2,6-Dinitrotoluene 2.00 U mg/Kg EPA 8270 09/08 10/07 GV 3-Nitroaniline 2.00 Ü mg/Kg EPA 8270 09/08 10/07 GV Acenaphthene 2.00 U ma/Ka EPA 8270 09/08 10/07 GV 2,4-Dinitrophenol 2.00 U mq/Kq EPA 8270 09/08 10/07 GV 4-Nitrophenol 2.00 IJ mg/Kg EPA 8270 09/08 10/07 GV Dibenzofuran 2.00 U mg/Ka EPA 8270 09/08 10/07 GV 2,4-Dinitrotoluene 2.00 U mg/Kg EPA 8270 09/08 10/07 **GV** 2.00 Diethylphthalate U mg/Kg EPA 8270 09/08 10/07 GV 4-Chlorophenyl-Phenylet 2.00 U ma/Ka EPA 8270 09/08 10/07 GV Fluorene 2.00 U mg/Kg EPA 8270 09/08 10/07 GV 4-Nitroaniline 2.00 IJ ma/Ka EPA 8270 09/08 10/07 GV 4,6-Dinitro-2-Methylphe ij 2.00 mq/Kq EPA 8270 09/08 10/07 GV n-Nitrosodiphenylamine 2.00 ma/Ka EPA 8270 09/08 10/07 GV 4-Bromophenyl-Phenyleth 2.00 IJ mg/Kg EPA 8270 09/08 10/07 GV Hexachlorobenzene 2.00 Ü mg/Kg EPA 8270 09/08 10/07 GV Pentachlorophenol 2.00 U ma/Ka EPA 8270 09/08 10/07 GV Phenanthrene 2.00 U mg/Kg EPA 8270 09/08 10/07 GV Anthracene 2.00 U mg/Kg EPA 8270 09/08 10/07 GV di-n-Butylphthalate 2.00 U mg/Kg EPA 8270 09/08 10/07 GV Fluoranthene 2.00 U mg/Kg EPA 8270 09/08 10/07 V Pyrene 2.00 U mq/Ka EPA 8270 09/08 10/07 Butylbenzylphthalate 2.00 U mg/Kg EPA 8270 09/08 10/07 3,3-Dichlorobenzidine 2.00 U mg/Kg EPA 8270 09/08 10/07 GV Benzo(a)Anthracene 2.00 U mg/Kg EPA 8270 09/08 10/07 **GV** Chrysene 2.00 U mg/Kg EPA 8270 09/08 10/07 GV bis(2-Ethylhexyl)Phthal 2.00 U mg/Kg EPA 8270 09/08 10/07 **GV** di-n-Octylphthalate 2.00 U mg/Kg EPA 8270 09/08 10/07 GV 2.00 Benzo(b)Fluoranthene U mg/Kg EPA 8270 09/08 10/07 GV 2.00 Benzo(k)Fluoranthene - 11 mg/Kg EPA 8270 09/08 10/07 GV Benzo(a)Pyrene 2.00 U EPA 8270 mq/Ka 09/08 10/07 GV Indeno(1,2,3-cd)Pyrene 2.00 U mg/Kg EPA 8270 09/08 10/07 GV Dibenz(a,h)Anthracene 2.00 U mg/Kg EPA 8270 09/08 10/07 GV

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

2.00

46100

D = Secondary dilution.

Benzo(g,h,i)Perylene

TOC, Soil

UA = Unavailable

09/08 10/07

GV

NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)

EPA 8270

PSEP Ref Lab

mg/Kg

mg/Kg

**ENVIRONMENTAL LABORATORY SERVICES** 

mlab Ref.#

:93.4506-5

Client Sample ID :LON-SS05-SD08

Matrix

PWSID

:SOIL

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

:RAY MORRIS

Ordered By Project Name :DEW LINE Project#

:LONELY :UA

WORK Order

Received

:70353

Report Completed :10/12/93 Collected

:08/25/93

@ 15:55 hrs. :08/31/93 @ 15:10 hrs.

Technical Director: STEPHEN, C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, J.M., AND PETER M.G.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.35	U	mg/kg	EPA 8260		09/03		SGM
	Bromobenzene	0.35	IJ	mg/kg	EFA 8260		09/03		SGM
	Bromochloromethane	0.35	U	mg/kg	EPA 8260		09/03		SGM
	Bromodichloromethane	0.35	U	mg/kg	EPA 8260		09/03		SGM
	Bromoform	0.35	U	mg/kg	EPA 8260			09/04	SGM
	Bromomethane	0.35	U	mg/kg	EPA 8260			09/04	SGM
	n-Butylbenzene	0.35	U	mg/kg	EPA 8260			09/04	SGM
	sec-Butylbenzene	0.35	U	mg/kg	EPA 8260			09/04	SGM
	tert-Butylbenzne	0.35	U	mg/kg	EPA 8260			09/04	SGM
	Carbon Tetrachloride	0.35	U	mg/kg	EPA 8260			09/04	SGM
	Chlorobenzene	0.35	U	mg/kg	EPA 8260			09/04	SGM
	Chloroethane	0.35	U	mg/kg	EPA 8260			09/04	SGM
	Chloroform	0.35	U	mg/kg	EPA 8260			09/04	SGM
	Chloromethane	0.35	U	mg/kg	EPA 8260			09/04	SGM
	2-Chlorotoluene	0.35	U	mg/kg	EPA 8260			09/04	SGM
	4-Chlorotoluene	0.35		mg/kg	EPA 8260			09/04	SGM
	Dibromochloromethane	0.35		mg/kg	EPA 8260			09/04	SGM
	12Dibromo3Chloropropane	0.35		mg/kg	EPA 8260			09/04	SGM
	1,2-Dibromoethane	0.35		mg/kg	EPA 8260			09/04	SGM
	Dibromomethane	0.35		mg/kg	EPA 8260			09/04	SGM
	1,2-Dichlorobenzene	0.35		mg/kg	EPA 8260			09/04	SGM
	1,3-Dichlorobenzene	0.35		mg/kg	EPA 8260			09/04	SGM
	1,4-Dichlorobenzene	0.35		mg/kg	EPA 8260			09/04	SGM
	Dichlorodifluoromethane	0.35		mg/kg	EPA 8260			09/04	SGM
	1,1-Dichloroethane	0.35		mg∕kg	EPA 8260		•	09/04	SGM
	1,2-Dichloroethane	0.35		mg/kg	EPA 8260			09/04	SGM
	1,1-Dichloroethene	0.35		mg∕kg	EPA 8260			09/04	SGM
	cis-1,2-Dichloroethene	0.35		mg/kg	EPA 8260			09/04	SGM
	trans1,2-Dichloroethene	0.35		mg∕kg	EPA 8260			09/04	SGM
	1,2-Dichloropropane	0.35		mg/kg	EPA 8260			09/04	SGM
	1,3-Dichloropropane	0.35		mg/kg	EPA 8260			09/04	SGM
	2,2-Dichloropropane	0.35		mg/kg	EPA 8260			09/04	SGM
	1,1-Dichloropropene	0.35		mg/kg	EPA 8260			09/04	SGM SGM
	Ethylbenzene	0.35		mg/kg	EPA 8260	•		09/04	
	Hexachlorobutadiene	0.35		mg/kg	EPA 8260			09/04 09/04	SGM SGM
	Isopropylbenzene	0.35		mg/kg	EPA 8260			09/04	SGM
4	p-Isopropyltoluene	0.35	U	mg/kg	EPA 8260		09/03	07/04	วษท



TOC, Soil

### COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREE :93.4506-5 Chemlab Ref.# ANCHORAGE, AK 99518 Client Sample ID :LON-SS05-SD08 TEL: (907) 562-2343 FAX: (907) 561-5301 :SOIL Matrix 09/03 09/04 SGM EPA 8260 Methylene Chloride 0.35 U ma/ka 09/03 09/04 SGM EPA 8260 0.35 U mg/kg Napthalene 09/03 09/04 SGM **EPA** 8260 0.35 mg/kg U n-Propylbenzene 09/03 09/04 SGM EPA 8260 0.35 U mg/kg Styrene SGM 09/03 09/04 EPA 8260 0.35 1112-Tetrachloroethane U mg/kg 09/03 09/04 SGM EPA 8260 1122-Tetrachloroethane 0.35 mq/kg U EPA 8260 09/03 09/04 SGM 0.35 U mg/kg Tetrachloroethene 09/03 09/04 SGM EPA 8260 0.35 U mg/kg Toluene 09/03 09/04 SGM 0.35 U EPA 8260 1,2,3-Trichlorobenzene mg/kg 09/03 09/04 SGM **EPA** 8260 0.35 U mg/kg 1,2,4-Trichlorobenzene 09/03 09/04 SGM EPA 8260 1,1,1-Trichloroethane 0.35 U mq/kg 09/03 09/04 SGM EPA 8260 1,1,2-Trichloroethane 0.35 U mg/kg 09/03 09/04 SGM EPA 8260 Trichloroethene 0.35 U mq/kg 09/03 09/04 SGM EPA 8260 Trichlorofluoromethane 0.35 U ma/ka 09/03 09/04 SGM EPA 8260 1,2,3-Trichloropropane 0.35 U ma/ka 09/03 09/04 SGM 0.35 EPA 8260 mg/kg 1,2,4-Trimethylbenzene U 09/03 09/04 SGM EFA 8260 0.35 U 1,3,5-Trimethylbenzene mg/kg SGM 09/03 09/04 EPA 8260 0.35 U Vinyl Chloride mg/kg 09/03 09/04 SGM EPA 8260 0.35 p+m-Xylene U mg/kg 09/03 09/04 SGM EPA 8260 0.35 U mg/kg c-Xylene 09/30 PSEP Ref Lab 437000 mg/kg

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

chemlab Ref.# Client Sample ID :LON-SS05-2SD09

:93.4626-2

:ICF KAISER ENGINEERING

Matrix

Client Name

Ordered By

Project#

PWSID

Project Name

:RAY MORRIS

:DEW LINE

: LONELY

:UA

:SOIL

WORK Order :70635

Report Completed :10/07/93

Collected :09/04/93 @ 13:40 hrs

Received :09/07/93 @ 11:00 hrs

5633 B STREET

TEL: (907) 562-2343

FAX: (907) 561-5301

ANCHORAGE, AK 99518

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G. EPH PATTERN IS NOT

CONSISTENT WITH MIDDLE DISTILLATE FUEL.

OC Aliowable Ext. Parameter Results Qual Units Method Limits Date Date Init _____ Percent Solids 65.3 SM17 2540G 09/08 EAL Hydrocarbons EPH 188 3510/3550/8100m(J) E.IJ./ mg/Kg 09/14 09/15 DRS Hydrocarbons VPH 0.700 U EPA 5030/8015M mg/Kg 09/08 09/09 WLS

See Special Instructions Above See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.#

:93.4626-3

Client Sample ID :LON-SS05-2SD09 SPIKE

Matrix

:SOIL

Client Name Ordered By Project Name

:DEW LINE

Project# PWSID

:ICF KAISER ENGINEERING

:RAY MORRIS

:LONELY :UA

WORK Order

Report Completed :10/07/93 Collected

:09/04/93

:70635

@ 13:40 :09/07/93 @ 11:00 hrs.

5633 B STREE

FAX: (907) 561-5301

ANCHORAGE. AK 99518-TEL: (907) 562-2343

Received Technical Director:STEPHEN ,C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G. FOR SPIKING CONCENTRATION

AND PERCENT RECOVERY SEE QA/QC PACKAGE.

Parameter	QC Results Qua		Method	Allowable Limits	 Anal Date	Init
Percent Solids Hydrocarbons EPH Hydrocarbons VPH	65.3 245 18.2	% mg/Kg mg/Kg	SM17 2540G 3510/3550/8100M EPA 5030/8015M		 09/08 09/17 09/09	EAL DRS WLS

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than





REPORT of ANALYSIS

**ENVIRONMENTAL LABORATORY SERVICES** 

emlab Ref.#

:93.4626-4

Client Sample ID :LON-SS05-2SD09 SPIKE DUPLICATE

Matrix

:SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS :DEW LINE

Project# PWSID

: LONELY :UA

WORK Order Report Completed :10/07/93

:70635

:09/04/93

@ 13:40 hrs.

Collected Received

:09/07/93 @ 11:00 hrs.

Technical Director: STEPHEN, C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY:M. LEMMA AND PETER M.G. FOR SPIKING CONCENTRATION

AND PERCENT RECOVERY SEE QA/QC PACKAGE.

Parameter	Q0 Results Qua		Method	Allowable Limits	 Anal Date	Init
Percent Solids Hydrocarbons EPH Hydrocarbons VPH	69.3 264 17.7	% mg/Kg ma/Ka	SM17 2540G 3510/3550/8100M EPA 5030/8015M		09/08 09/17 09/09	EAL DRS WLS

See Special Instructions Above

See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.#

:93.4626-5

Client Sample ID :LON-SS05-2SD14

Matrix

:SOIL

Client Name Ordered By

:ICF KAISER ENGINEERING :RAY MORRIS

Project Name

:DEW LINE :LONELY

Project# PWSID

:UA

WORK Order

:70635

Report Completed :10/07/93

Collected Received

@ 15:40 hrs. :09/04/93 :09/07/93 @ 11:00 hrs.

5633 B STREET ANCHORAGE, AK 99518

TEL: (907) 562-2343

FAX: (907) 561-5301

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G. 188 MG/KG OF EPH PATTERN

IS NOT CONSISTENT WITH MIDDLE DISTILLATE FUEL.

Parameter	QC R <b>es</b> ults Qual	Units	Method	Allowable Limits		Anal Date	In <b>it</b>
Percent Solids Hydrocarbons EPH Hydrocarbons VPH	77.6 898 D 30.2	% mg/Kg mg/Kg	SM17 2540G 3510/3550/8100M EPA 5030/8015M		32,	09/08 09/16 09/09	EAL DRS WLS

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than





Client Name

Ordered By

## COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4505-1 Client Sample ID :LON-SS05-SW07

Matrix :WATER

> WORK Order :70355

> > Quality of Commence

5633 B STREE ANCHORAGE, AK 9951

TEL. (907) 562-234

FAX. (907) 561-530

:ICF KAISER ENGINEERING :RAY MORRIS Report Completed :09/29/93 :DEW LINE

Project Name Collected :08/25/93 @ 16:45 h: Project# :LONELY Received :08/31/93 @ 15:10 h: PWSID :UA

Technical Director:STEPHEN C EDE Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND Z.M. 8270: SURROGATE RECOVERY FOR

NITROBENZENE-D5 AND 4-NITROPHENOL IS OUTSIDE OF QC LIMITS.

				Vialifie	Min	with		
Parameter	Results	QC Qual	Units	olfA	wable mits		Anal Date	Ini
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		00/02	00/02	
Bromobenzene	0.0010	Ū	mg/L	EPA 8260		09/02	09/02 09/02	KI.
Bromochloromethane	0.0010	U	mg/L	EPA 8260		09/02	09/02	KI-
Bromodichloromethane	0.0010	Ū	mg/L	EPA 8260		09/02	09/02	KI-
Bromoform	0.0010	Ū	mg/L	EPA 8260		09/02	09/02	K1
Bromomethane	0.0010	Ū	mg/L	EPA 8260			09/02	K.
n-Butylbenzene	0.0010	Ü	mg/L	EPA 8260			09/02	KI-
sec-Butylbenzene	0.0010	ŭ	mg/L	EPA 8260			09/02	KI*
tert-Butylbenzne	0.0010	Ü	mg/L	EPA 8260		09/02	09/02	Κħ
Carbon Tetrachloride	0.0010	Ü	mg/L	EPA 8260			09/02	K¥.
Chlorobenzene	0.0010	Ü	mg/L	EPA 8260			09/02	KW
Chloroethane	0.0010	Ü	mg/L	EPA 8260		09/02	09/02	KW
Chloroform	0.0010	Ü	mg/L	EPA 8260		09/02	09/02	KW
Chloromethane	0.0010	Ü	mg/L	EPA 8260(T) -J.1		09/02	09/02	KW
2-Chlorotoluene	0.0010	Ü	mg/L	EPA 8260		09/02		KW
4-Chlorotoluene	0.0010	Ŭ	mg/L	EPA 8260		09/02	09/02	KW
Dibromochloromethane	0.0010	ŭ	mg/L	EPA 8260		09/02	09/02	KW
12Dibromo3Chloropropane	0.0010	ŭ	mg/L	EPA 8260		09/02	09/02	KW
1,2-Dibromoethane	0.0010	บั	mg/L	EPA 8260		09/02		KW
Dibromomethane	0.0010	Ü	mg/L	EPA 8260		09/02		KW
1,2-Dichlorobenzene	0.0010	บ	mg/L	EPA 8260		09/02		KW
1,3-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260		09/02		KW
• •	0.0010	Ü	mg/L	EPA 8260		09/02		KW
Dichlorodifluoromethane	0.0010	บ	mg/L	EPA 8260		09/02		KW.
1,1-Dichloroethane	0.0010	Ü	mg/L	EPA 8260		09/02		KW:
1,2-Dichloroethane	0.0044	Ü	mg/L	EPA 8260		09/02		KW:
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/02		KW:
cis-1,2-Dichloroethene	0.0010	Ü	mg/L	EPA 8260		09/02		KW:
trans1,2-Dichloroethene	0.0010	บ	mg/L	EPA 8260		09/02		KW!
1,2-Dichloropropane	0.0010	บ	mg/L	EPA 8260		09/02		KW:
1,3-Dichloropropane	0.0010	Ü	mg/L	EPA 8260		09/02	09/02	KW:
2,2-Dichloropropane	0.0010	ŭ	mg/L	EPA 8260		09/02		KW:
1,1-Dichloropropene	0.0010	Ü				09/02		KW:
Ethylbenzene	0.0010	บ	mg/L mg/L	EPA 8260 EPA 8260		09/02		KW:
exachlorobutadiene	0.0010	Ü	-			09/02		KW:
sopropylbenzene	0.0010	Ü	mg/L	EPA 8260		09/02		KWI
And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	0.0010	J	mg/L	EPA 8260		09/02	09/02	KW:
				3-10.9.	1			
				3-10	ι			
				J				



ENVIRONMENTAL LABORATORY SERVICES

5.502 309

REPORT of ANALYSIS

Chemlab Ref.# :93.4505-1
Client Sample ID :LON-SS05-SW07

Matrix :WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-234C FAX: (907) 561-5301

MAILA.				· · · · · · · · · · · · · · · · · · ·
p-Isopropyltoluene	0.0010 U	mg/L	EPA 8260	09/02 09/ <b>02</b> K
Methylene Chloride	0.0010 U	mg/L	EPA 8260	09/02 09/02 K
Napthalene	0.0010 U	mg/L	EPA 8260	09/02 09/02 Ki
n-Propylbenzene	0.0010 U	mg/L	EPA 8260	09/02 09/02 KT
Styrene	0.0010 U	mg/L	EPA 8260	09/02 09/02 KF
1112-Tetrachloroethane	0.0010 U	mg/L	EPA 8260	09/02 09/02 KF
1122-Tetrachloroethane	0.0010 U	mg/L	EPA 8260	09/02 09/02 KF
Tetrachloroethene	0.0010 U	mg/L	EPA 8260	09/02 09/02 KF
Toluene	0.0010 U	mg/L	EPA 8260	09/02 09/02 KF
1,2,3-Trichlorobenzene	0.0010 U	mg/L	EPA 8260	09/02 09/02 KF
1,2,4-Trichlorobenzene	0.0010 U	mg/L	EPA 8260	
1,1,1-Trichloroethane	0.0010 U	mg/L	EPA 8260	
1,1,2-Trichloroethane	0.0010 U	mg/L	EPA 8260	09/02 09/02 KW 09/02 09/02 KW
Trichloroethene	0.0010 U	mg/L	EPA 8260	09/02 09/02 KW
Trichlorofluoromethane	0.0010 U	mg/L	EPA 8260	
1,2,3-Trichloropropane	0.0010 U	mg/L	EPA 8260	
1,2,4-Trimethylbenzene	0.0010 U	mg/L	EPA 8260	
1,3,5-Trimethylbenzene	0.0010 U	mg/L	EPA 8260	09/02 09/02 KW 09/02 09/02 KW
Vinyl Chloride	0.0010 U	mg/L	EPA 8260	
p+m-Xylene	0.0010 U	mg/L	EPA 8260	09/02 09/02 KW 09/02 09/02 KW
o-Xylene	0.0010 U	mg/L	EPA 8260	· · · · · · · · · · · · · · · · · · ·
5 11/20115	0.0010 0	mg/ L	LIA 0200	09/02 09/02 KW
Semivolatile Organics			EPA 8270	
- Phenol	0.011 U	mg/L	EPA 8270	09/01 09/04
bis(2-Chloroethyl)ether	0.011 U	mg/L	EPA 8270	09/01 09/04 h.
2-Chlorophenol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
1,3-Dichlorobenzene	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
1,4-Dichlorobenzene	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
Benzyl Alcohol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
1,2-Dichlorobenzene	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
2-Methylphenol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
<pre>bis(2-Chloroisopropyl)e</pre>	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
4-Methylphenol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
n-Nitroso-di-n-Propylam	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
Hexachloroethane	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
Nitrobenzene	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
Isophorone	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
2-Nitrophenol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
2,4-Dimethylphenol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
Benzoic Acid	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
bis(2-Chloroethoxy)Meth	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
2,4-Dichlorophenol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
1,2,4-Trichlorobenzene	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
Naphthalene	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
4-Chloroaniline	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
Hexachlorobutadiene	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
4-Chloro-3-Methylphenol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
2-Methylnaphthalene	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
Hexachlorocyclopentadie	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
2,4,6-Trichlorophenol	0.011 U	mg/L	EPA 8270	09/01 09/04 MT
2,4,5-Trichlorophenol	. 0.011 U	mg/L	EPA 8270	09/01 09/04 TT





ENVIRONMENTAL LABORATORY SERVICES

5.528 - 908	1	PEPORT OF AN	IALYSIS EL	
Chemlab Ref.# :93.4505-1	•	CLE CITE OF AL	, ,	5633 B STREET
Client Sample ID :LON-SS05-S	W07		Qualifei 1//	ANCHORAGE AK 9951: / TEL: (907) 562-234:
Matrix :WATER			Cluatifii1//	MMeut FAX (907) 561-530
			<del></del>	
2-Chloronaphthalene	0.011	U mg/L	EPA 8270 /	09/01 09/04 M
2-Nitroaniline	0.011	U mg/L	EPA 8270	09/01 09/04 M
Dimethylphthalate	0.011	U mg/L	EPA 8270	09/01 09/04 M
Acenaphthylene	0.011	U mg/L	EPA 8270	
2,6-Dinitrotoluene	0.011	U mg/L	EPA 8270	
3-Nitroaniline	0.011	U mg/L	EPA 8270	
Acenaphthene	0.011	U mg/L	EPA 8270	09/01 09/04 M'
2,4-Dinitrophenol	0.011	U mg/L	EPA 8270	09/01 09/04 MT
4-Nitrophenol	0.011	<b>.</b>	EPA 8270	09/01 09/04 HT
Dibenzofuran	0.011	<b>3</b>	EPA 8270	09/01 09/04 MT
2,4-Dinitrotoluene	0.011			09/01 09/04 Hr.
Diethylphthalate	0.011	U mg/L	EPA 8270	09/01 09/04 MT
4-Chlorophenyl-Phenylet	0.011	U mg/L	EPA 8270	09/01 09/04 MT
Fluorene	0.011	U mg/L	EPA 8270	09/01 09/04 HT
4-Nitroaniline		U mg/L	EPA 8270	09/01 09/04 MT
	0.011	U mg/L	EPA 8270	09/01 09/04 MT
4,6-Dinitro-2-Methylphe	0.011	U mg/L	EPA 8270	09/01 09/04 H:
n-Nitrosodiphenylamine	0.011	U mg/L	EPA 8270	09/01 09/04 MT
4-Bromophenyl-Phenyleth	0.011	U mg/L	EPA 8270	09/01 09/04 MI
Hexachlorobenzene	0.011	U mg/L	EPA 8270	09/01 09/04 MI
Pentachlorophenol	0.011	U mg/L	EPA 8270	09/01 09/04 MI
Phenanthrene	0.011	U mg/L	EPA 8270	09/01 09/04 MT
Anthracene	0.011	U mg/L	EPA 8270	09/01 09/04 HI
di-n-Butylphthalate	0.011	U mg/L	EPA 8270	09/01 09/04 MT
- Fluoranthene	0.011	U mg/L	EPA 8270	09/01 09/04 MT
Pyrene	0.011	U mg/L	EPA 8270	09/01 09/04 MI
Butylbenzylphthalate	0.011	U mg/L	EPA 8270 (	09/01 09/04 MT
3,3-Dichlorobenzidine	0.011	U mg/L	EPA 8270(J) -D.1	09/01 09/04 HT
Benzo(a)Anthracene	0.011	U mg/L	EPA 8270	09/01 09/04 MT
Chrysene	0.011	U mg/L	EPA 8270	09/01 09/04 MT
bis(2-Ethylhexyl)Phthal	0.011	U mg/L	EPA 8270	09/01 09/04 MT
di-n-Octylphthalate	0.011	U mg/L	EPA 8270	09/01 09/04 MT
Benzo(b)Fluoranthene	0.011	U mg/L	EPA 8270	09/01 09/04 MT
Benzo(k)Fluoranthene	0.011	U mg/L	EPA 8270	09/01 09/04 HT
Benzo(a)Pyrene	0.011	U mg/L	EPA 8270	09/01 09/04 MT
<pre>Indeno(1,2,3-cd)Pyrene</pre>	0.011	U mg/L	EPA 8270	09/01 09/04 MT
Dibenz(a,h)Anthracene	0.011	U mg/L	EPA 8270	09/01 09/04 MT
Benzo(g,h,i)Perylene	0.011	_	EPA 8270	09/01 09/04 MT
TOC, Nonpurgable			EPA 9060 n/	a
TOC Range	166-204	mg/L	EPA 9060	09/14 CM
TOC Concentration	178	mg/L	EPA 9060	09/14 CM
				11, 21
Residue, Non-Filterable	1440	mg/L	EPA 160.2	09/02 09/02 GP
Residue,Filterable(TDS)	298	mg/L	EPA 160.1 50	
		<del>-</del> - ·		11, 11, 11, 11, 11, 11, 11, 11, 11, 11,

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4505-2 Client Sample ID :LON-SS05-SW08

Matrix

:WATER

WORK Order :70355

Report Completed :09/29/93 Collected :08/25/93

@ 16:45 hrs :08/31/93 @ 15:10 hrs Received

5633 B STRE

TEL: (907) 562-2343 FAX (907) 561-5301

ANCHORAGE, AK 99518

Technical Director: STEPHEN C. EDE Released By:

Client Name Ordered By

:RAY MORRIS : DEW LINE

Project Name Project#

: LONELY

PWSID

:UA

:ICF KAISER ENGINEERING

Sample Remarks: SAMPLE COLL	ECTED BY:	M. L	EMMA AND	Z.M.	5 A = 1/V	,		-
				(i	Linker/Con	nnick	>	
		QC			Allowable	Ext.	Anal	
Parameter	Results		Units	Method	Limits	Date		Init
Volatile Organics	·			EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWE
Bromobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWE
Bromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWY.
Bromoform	0.0010	U	mg/L	EPA 8260			09/03	KWP.
Bromomethane	0.0010		mg/L	EPA 8260		09/03	09/03	KWY.
n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWY.
tert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/03	
Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260			09/03	
Chlorobenzene	0.0010		mg/L	EPA 8260			09/03	KWM
Chloroethane	0.0010		mg/L	EPA 8260			09/03	KWM
Chloroform	0.0010	U	mg/L	EPA 8260	- 1		09/03	KWM
Chloromethane	0.0023		mg/L	EPA 8260 (J)	- 5.1		09/03	KWM
2-Chlorotoluene	0.0010		mg/L	EPA 8260			09/03	KWM
4-Chlorotoluene	0.0010		mg/L	EPA 8260			09/03	KWM
Dibromochloromethane	0.0010		mg/L	EPA 8260			09/03	KWM
12Dibromo3Chloropropane	0.0010		mg/L	EPA 8260			09/03	KWM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Dibromomethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,4-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	KWM
Dichlorodifluoromethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
1,1-Dichloroethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
1,2-Dichloroethane	0.0040	,,	mg/L	EPA 8260			09/03	KWM
1,1-Dichloroethene	0.0010		mg/L	EPA 8260			09/03	KWM
<pre>cis-1,2-Dichloroethene trans1,2-Dichloroethene</pre>	0.0010 0.0010		mg/L	EPA 8260 EPA 8260			09/03	KWM
1,2-Dichloropropane	0.0010	บ น	mg/L	EPA 8260			09/03	KWM
1,3-Dichloropropane	0.0010		mg/L	EPA 8260			09/03	KWM
2,2-Dichloropropane	0.0010		mg/L mg/L	EPA 8260			09/03	KWM
1,1-Dichloropropene	0.0010		mg/L	EPA 8260	. 8		09/03 09/03	
Ethylbenzene	0.0010		mg/L	EPA 8260	•		09/03	KWM
Hexachlorobutadiene	0.0010		mg/L	EPA 8260			09/03	KWM KWM
Isopropylbenzene	0.0010		mg/L	EPA 8260			09/03	KWM
p-Isopropyltoluene	0.0010		mg/L	EPA 8260			09/03	LAU.
E TOOPTOPYTENE	0.0010	J	11년/ L	₩ ₩ Û2ÛÛ	.1	0 3/ 03	0 3/ 03	<b>45</b> 5,
				(A)	97			
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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS SEE

Chemlab Ref.# :93.4505-2 Client Sample ID :LON-SS05-SW08 ANCHORAGE, AK 99518 TEL: (907) 562-2343

Matrix :WATER	5#00				FAX: (907) 562-2343 FAX: (907) 561-5301	
Methylene Chloride	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	<b>a</b> ?
Napthalene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
n-Propylbenzene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
Styrene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1112-Tetrachloroethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1122-Tetrachloroethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
Tetrachloroethene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
Toluene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1,2,3-Trichlorobenzene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1,2,4-Trichlorobenzene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1,1,1-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1,1,2-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
Trichloroethene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
Trichlorofluoromethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1,2,3-Trichloropropane	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1,2,4-Trimethylbenzene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
1,3,5-Trimethylbenzene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	
Vinyl Chloride	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	n
p+m-Xylene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	11
o-Xylene	0.0010	U	mg/L	EPA 8260	09/03 09/03 KW	n
Semivolatile Organics	* ***			EPA 8270		
Phenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	M
bis(2-Chloroethyl)ether	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
2-Chlorophenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
1,3-Dichlorobenzene	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
1,4-Dichlorobenzene Benzyl Alcohol	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
1,2-Dichlorobenzene	0.011 0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
2-Methylphenol	0.011	U U	mg/L	EPA 8270	09/01 09/04 MT	
bis(2-Chloroisopropyl)e	0.011	Ü	mg/L	EPA 8270	09/01 09/04 HT	
4-Methylphenol	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MT	
n-Nitroso-di-n-Propylam	0.011	Ü	mg/L mg/L	EPA 8270	09/01 09/04 MT	
Hexachloroethane	0.011	Ü	mg/L	EPA 8270 EPA 8270	09/01 09/04 MT	
Nitrobenzene	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MT 09/01 09/04 MT	
Isophorone	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MT 09/01 09/04 MT	
2-Nitrophenol	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MT	
2,4-Dimethylphenol	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MT	
Benzoic Acid	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MT	
bis(2-Chloroethoxy)Meth	0.011	Ū	mg/L	EPA 8270	09/01 09/04 MT	
2,4-Dichlorophenol	0.011	Ŭ	mg/L	EPA 8270	09/01 09/04 MT	
1,2,4-Trichlorobenzene	0.011	Ū	mg/L	EPA 8270	09/01 09/04 MT	
Naphthalene	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MT	
4-Chloroaniline	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
Hexachlorobutadiene	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MT	
4-Chloro-3-Methylphenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
2-Methylnaphthalene	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
Hexachlorocyclopentadie	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
2,4,6-Trichlorophenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
2,4,5-Trichlorophenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
2-Chloronaphthalene	0.011	U	mg/L	EPA 8270	09/01 09/04 MT	
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ENVIRONMENTAL LABORATORY SERVICES

· : · . c	1	REPO	RT of ANAI	YSIS XX		5633 B ST	DEET
Chemlab Ref.# :93.4505-2						ORAGE. AK	99518
Client Sample ID :LON-SS05-SW	801			Quality		FEL. (907) 562 FAX: (907) 561	
Matrix :WATER				- Grange	/ ()///////////////////////////////////	WY. (301) 201	-5301
2-Nitroaniline	0.011	บ	mg/L	EPA 8270	09/01	09/04	MTI
Dimethylphthalate	0.011	Ŭ	mg/L	EPA 8270	09/01	09/04	MTT
Acenaphthylene	0.011	Ū	mg/L	EPA 8270		09/04	MTI
2.6-Dinitrotoluene	0.011	Ū	mg/L	EPA 8270		09/04	MTI
3-Nitroaniline	0.011	Ū	mg/L	EPA 8270	09/01	09/04	HTI
Acenaphthene	0.011	U	mg/L	EPA 8270	09/01	09/04	MTI
2.4-Dinitrophenol	0.011	U	mg/L	EPA 8270	09/01	09/04	MTI
4-Nitrophenol	0.011	Ü	mg/L	EPA 8270	09/01	09/04	MTI
Dibenzofuran	0.011	Ü	mg/L	EPA 8270	09/01	09/04	HII
2,4-Dinitrotoluene	0.011	Ū	mg/L	EPA 8270	09/01	09/04	MTT
Diethylphthalate	0.011	U	mg/L	EPA 8270	09/01	09/04	MTT
4-Chlorophenyl-Phenylet	0.011	Ū	mg/L	EPA 8270	09/01	09/04	MTT
Fluorene	0.011		mg/L	EPA 8270	09/01	09/04	MTT
4-Nitroaniline	0.011	U	mg/L	EPA 8270	09/01	09/04	MTT
4,6-Dinitro-2-Methylphe	0.011	Ü	mg/L	EPA 8270	09/01	09/04	HTT
n-Nitrosodiphenylamine	0.011	U	mg/L	EPA 8270	09/01	09/04	MTT
4-Bromophenyl-Phenyleth	0.011	U	mg/L	EPA 8270	09/01	09/04	MTT
Hexachlorobenzene	0.011	U	mg/L	EPA 8270	09/01	09/04	MTT
Pentachlorophenol	0.011	U	mg/L	ETPA 8270		09/04	MTT
Phenanthrene	0.011	Ü	mg/L	EPA 8270	09/01	09/04	HTT
Anthracene	0.011	U	mg/L	EPA 8270	09/01	09/04	
di-n-Butylphthalate	0.011	Ü	mg/L	EPA 8270	09/01	09/04	
Fluoranthene	0.011	U	mg/L	EPA 8270		09/04	HIT
Pyrene	0.011	U	mg/L	EPA 8270		09/04	MTT
Butylbenzylphthalate	0.011	U	mg/L	EPA 8270		09/04	MTT
3,3-Dichlorobenzidine	0.011	U	mg/L	EPA 8270(J)-b.		09/04	mtt
Benzo(a)Anthracene	0.011	U	mg/L	EPA 8270		09/04	MTT
Chrysene	0.011	U	mg/L	EPA 8270		09/04	HTT
bis(2-Ethylhexyl)Phthal	0.011	U	mg/L	EPA 8270		L 09/04	MTT
di-n-Octylphthalate	0.011	U	mg/L	EPA 8270		09/04	MTT
Benzo(b)Fluoranthene	0.011	U	mg/L	EPA 8270		09/04	MTT
Benzo(k)Fluoranthene	0.011	U	mg/L	EPA 8270		1 09/04	MTT
Benzo(a)Pyrene	0.011	U	mg/L	EPA 8270		1 09/04	MIT
Indeno(1,2,3-cd)Pyrene	0.011	U	mg/L	EPA 8270		1 09/04	MTT
Dibenz(a,h)Anthracene	0.011	U	mg/L	EPA 8270		1 09/04	MTT
Benzo(g,h,i)Perylene	0.011	U	mg/L	EPA 8270	09/0	1 09/04	MTT
TOC, Nonpurgable				EPA 9060	n/a		
TOC Range	245-261		mg/L	EPA 9060		09/14	RJK
TOC Concentration	254		mg/L	EPA 9060		09/14	RJK
Residue, Non-Filterable	8260		mg/L	EPA 160.2		2 09/02	GPP
Residue, Filterable (TDS)	326		mg/L	EPA 160.1	500 09/2	0 09/21	RJK

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

ICF ID	LON-SS05-S01	LON-SS05-S01	LON-SS05-S01
F&Bl Number	708	708 dup	708 ms (4)
Sample Type	soil	soil	soil by 45
Date Received	8/26/93	8/26/93	8/26/93
% Dry Weight	92	0,20,00	,
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas			
JP-4	< 50	< 50	
Lube Oil	< 100	<110	
Diesel	< 50	60	98
Spike Level			500
Unknown Semi-volatile			
Pentacosane	102	96	111
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242 PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4		< 0.02	75
TCA	,	< 0.02	75
Benzene	<9,6260.047 <9,6260.047	< 0.02	70
TCE	0.00	< 0.02	* 84
Toluene	<0,02 20.045	< 0.02	80
PCE	None	< 0.02	84
Ethylbenzene	< 4.0260.040	< 0.02	84
Xylenes Gasoline	<0.02 co.04 T <0.04 co.08 J <2 JUO J	< 0.04	94
Spike level	SX 14100	<2	1
Spike level BFB	93	91	100
DED	შა	<b>ت</b> ا	100

			10110005 000 100
ICF ID	LON-SS05-S01	LON-SS05-S02-03	LON-SS05-S03
F&BI Number	708 msd	710	714 Cont And
Sample Type	soil	soil	soil ht 5.43
Date Received	8/26/93	8/26/93	8/26/93 p´
% Dry Weight		94	95
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas			
JP-4		<50	<50
Lube Oil		< 100	< 100
Diesel	82	5001450	<del>50 o</del> il 450
Spike Level	500		
Unknown Semi-volatile			
Pentacosane	106	99	102
Sequence Date	100		
PCB 1221			
PCB 1232			
PCB 1232			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
Vol Sequence		#102-00/20/93	#162 00/20/00
CCI4	72		
TCA	89	< 0.02	< 0.02
Benzene	82	< 0.02	\ U.UZ
TCE	92	-0.00	<0.02
Toluene	82	< 0.02	< 0.02
PCE	86		
Ethylbenzene	100	< 0.02	<0.02
Xylenes	92	< 0.04	< 0.04
Gasoline		<2 <b>T</b>	<2 丁
Spike level	1		
BFB	100	84	88

ICF ID	LON-SS05-S04-03	LON-SS05-S04-03	LON-SS05-S04-03
F&BI Number	718	718 dup	718 ms
Sample Type	soil	soil	soil
Date Received	8/26/93	8/26/93	8/26/93
% Dry Weight	95	#0.00 #0.0 #0.0	"0 00/00/00
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas			
JP-4	< 50	< 50	
Lube Oil	<100	< 100	
Diesel	7 <del>0 oil</del> < <i>5</i> 0	< 50	87
Spike Level			500
Unknown Semi-volatile			
Pentacosane	99	98	107
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4		< 0.02	71
TCA		< 0.02	80
Benzene	< 0.02	< 0.02	72
TCE		< 0.02	: 86
Toluene	< 0.02	< 0.02	88
PCE		< 0.02	90
Ethylbenzene	< 0.02	< 0.02	96
Xylenes	< 0.04	< 0.04	88
Gasoline	<2 ₹	<2	
Spike level		· <del>-</del>	1
BFB	82	92	91
	<b></b>	<u> </u>	31

ICF ID	LON-SS05-S04-03	LON-SS05-S05	LON-SS05-S06-01
F&BI Number	718 msd	720	728 <i>(g</i>
Sample Type	soil	soil	soil b
Date Received	8/26/93	8/26/93	8/26/93
% Dry Weight	0/20/00	52	74
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas	,, 0 00, 20, 00		
JP-4		< 100	< 70
Lube Oil		< 200	< 140
Diesel	102	< 100	7 <del>0 oi</del> l 270
Spike Level	500		
Unknown Semi-volatile			
Pentacosane	121	98	100
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE Dialdrin			
Dieldrin Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4	70		
TCA	82	-0.05	<b>.0.03</b>
Benzene	70	< 0.05	< 0.03
TCE	86		< 0.03
Toluene	90	< 0.05	<b>~0.03</b>
PCE	98	< 0.05	0.2
Ethylbenzene	82 70	< 0.05 < 0.1	0.2 <b>T</b>
Xylenes	78	<5 <b>√</b>	7 <b>T</b>
Gasoline	1	< 21	′ ′
Spike level	80	87	108
BFB	00	0,	. 55

ICF ID	LON-SS05-S07	LON-SS05-S08-01	LON-SS05-S11
F&BI Number	722	730	760 (M)
Sample Type	soil	soil	soil by 19
Date Received	8/26/93	8/26/93	8/26/93
% Dry Weight	60	74	92
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas			
JP-4	<170	< 70	<50
Lube Oil	< 170	<140	<110
Diesel	1 <del>20 o</del> il 480	90-0il <70	930 J
Spike Level			
Unknown Semi-volatile			
Pentacosane	99	98	106
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254 PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4			
TCA			
Benzene	< 0.05	< 0.03	< 0.02
TCE			
Toluene	< 0.05	< 0.03	
PCE	.0.05	.0.00	
Ethylbenzene	< 0.05	< 0.03	^ <b>—</b>
Xylenes	<0.1	< 0.06	6 J 100 <del>J</del>
Gasoline Spike level	<5 ブ	<3 丁	100 T
Spike level BFB	84	96	116
טו ט	04	30	110

			<del></del>
ICF ID	LON-SS05-S12-03	LON-SS05-S13	LON-SS05-S14
F&BI Number	758	756	754 Con 4 4 5
Sample Type	soil	soil	soil why say
Date Received	8/26/93	8/26/93	8/26/93 1 ⁹
% Dry Weight	91	93	94
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas			
JP-4	< 50	< 50	<50
Lube Oil	<110	<100	<100
Diesel	1400丁	280ブ	4300 J
Spike Level			
Unknown Semi-volatile	100	102	102
Pentacosane	102	102	102
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248 PCB 1254			
PCB 1254 PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
Vol Sequence	#182-06/26/93	#102-06/20/33	#1Q2 00/20/00
CCI4 TCA			
Benzene	<0.02 T	< 0.02	< 0.02
TCE	(0.02 y	70.02	
Toluene	40.2 J	0.4	0.7
PCE	<b>4</b> 0.2 <b>9</b>	<b></b>	•
Ethylbenzene	∠0.3 <i>丁</i>	0.3	3
Xylenes	20:5 <b>7</b>	4 J	6 J
Gasoline	∠ 50 <i>T</i>	54 T	1207
Spike level	- 00 •		<u>.</u>
BFB	113	83	120
5.5			

			<u> </u>
ICF ID	LON-SS05-S15-2.5	LON-SS05-S15-2.5	LON-SS05-S15-2.5
F&Bl Number	752	752 dup	752 ms (14A)
Sample Type	soil	soil	soil pt as
Date Received	8/26/93	8/26/93	8/26/93 p ⁻³
% Dry Weight	97	3, 23, 33	, , ,
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas	,, 3 33, 23, 33	" G G G T E G T G G	0 00/20/00
JP-4	<50	< 50	
Lube Oil	<100	<100	
Diesel	50ブ	60	87
Spike Level			500
Unknown Semi-volatile			
Pentacosane	103	87	113
Sequence Date	.00	σ,	110
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4		< 0.02	84
TCA		< 0.02	84
Benzene	< 0.02	< 0.02	74
TCE		< 0.02	92
Toluene	< 0.02	< 0.02	84
PCE		< 0.02	90
Ethylbenzene	< 0.02	< 0.02	104
Xylenes	< 0.04	< 0.04	80
Gasoline	<2 J	<2	
Spike level			1
BFB	89	70	96

ICF ID	LON-SS05-S15-2.5	LON-SS05-S16	LON-SS05-S17-3
F&BI Number	752 msd	750	748 (gr ⁷ )
Sample Type	soil	soil	soil by 295
Date Received	8/26/93	8/26/93	8/26/93 10 ¹⁹
% Dry Weight		93	94
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas			
JP-4		< 50	< 50
Lube Oil		< 100	< 100
Diesel	89	50 <b>丁</b>	< 50
Spike Level	500		
Unknown Semi-volatile			
Pentacosane	113	94	96
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	******	#4.8.0.00/20/02	#4 0 2 00/20/02
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4	89		
TCA	74	40 A0	<0.02 CO.ZJ
Benzene	74	< 0.02	:
TCE	92	0.02	<0.25 <0.25
Toluene	90	0.03	>1,02 -0.23
PCE	102	0.05	<0.02 co.2J
Ethylbenzene	102	0.25	\$0.04 co.45
Xylenes	78	2 J	\$0.0428.40 \$2.220J
Gasoline	4	9 <b>T</b>	QZ 6203
Spike level	1	00	0.2
BFB	86	89	92

ICF ID	LON-\$\$05-\$18-2.5	LON-SS05-S19	LON-SS05-2S19-3
F&BI Number	732	746	1787
Sample Type	soil	soil	soil by as
Date Received	8/26/93	8/26/93	9/4/93 p ²
% Dry Weight	98	94	63
Sequence Date	#6-08/26/93	#6-08/26/93	#5-09/08/93
Leaded Gas	# 6 66/E6/66	,, 0, 00, 20, 00	
JP-4	<50	<50	< 70
Lube Oil	<100	<100	∠140
Diesel	1300ブ	290J	£70 <80
Spike Level	10000	2000	
Unknown Semi-volatile			
Pentacosane	96	99	80
Sequence Date	00	00	30
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1242			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE District			
Dieldrin			
Endrin			
Endosulfan II			
DDD Facility Aldahada			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	"4 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	<b>#4.0.0</b> 0.0 <b>#0.0 #0.0</b>	
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	
CCI4			
TCA	. 0. 00		
Benzene	< 0.02	< 0.02	
TCE		A 42 : 3	•
Toluene	< 0.02	210.3	
PCE	-	<b>^</b> -	
Ethylbenzene	2	0.5	
Xylenes	7 <del>す</del>	235	
Gasoline	80 T	47 T	
Spike level			
BFB	117	88	

ICF ID	LON-SS05-SD01	LON-SS05-SD02	LON-SS05-SD03
F&BI Number	712	716	702 A A
Sample Type	soil	soil	soil 6-35,45
Date Received	8/26/93	8/26/93	8/26/93 <b>(10</b>
% Dry Weight	92	14	86
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas			
JP-4	< 50	< 360	< 60
Lube Oil	<110	<710	<120
Diesel	6001250	<360	600 J
Spike Level			
Unknown Semi-volatile		220 biological	60 biological
Pentacosane	94	110	113
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
•			
Spike Level Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4	#162 00/20/33	# 1 QZ 00/20/00	,, , <del>, , , , , , , , , , , , , , , , ,</del>
TCA			
	< 0.02	< 0.04 60.145	<0.4 possible carryover $$
Benzene	₹0.02	<b>56.</b> 04 con 70	
TCE	< 0.02	<0.0420.147	<0.4 possible carryover J
Toluene	₹0.02	\ 0.04 <b>20.770</b>	TOTAL POSSIBLE SULLY OVER 3
PCE	~0.02	< 0.04 20.145	<1.4 possible carryover 7
Ethylbenzene	<0.02 <0.04	<0.16 co.28J	<2.4 possible carryover \$\frac{1}{2}\$
Xylenes	<0.04 <2 <b>T</b>	«4 L7J	< 40 possible carryover $\mathcal{T}$
Gasoline	< 2 V	<del>84</del> 6 /V	THO POSSIDIE CALLYOVEL 1
Spike level	00	90	102
BFB	83	80	I U Z

ICF ID	LON-SS05-SD04	LON-SS05-SD05	LON-SS05-SD06
F&BI Number	726	698	686 Con GA 05
Sample Type	soil	soil	lios lios
Date Received	8/26/93	8/26/93	8/26/93
% Dry Weight	87	38	17
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas	#0 00/20/33	#0 00/20/30	,, 0 00,20,00
JP-4	< 60	<130	<290
Lube Oil	420	< 260	<590
Diesel	1300J	240 T	690 J
	13009	240 4	030 3
Spike Level Unknown Semi-volatile			
	109	125	121
Pentacosane	109	125	121
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4	#102-08/28/93	#102-00/20/33	#182-00/20/33
TCA			
Benzene	1.2	< 0.1	<0.1
TCE	1.4	~ O. 1	
Toluene	2	<0.1	< 0.1
PCE	۷	<b>\0.1</b>	<b></b>
Ethylbenzene	2	< 0.1	< 0.1
Xylenes	2 5 <b>ブ</b>	<0.2	<0.1
Gasoline	80 <u>1</u>	<0.2 <10 √	<10J
	00 4	~ 10 <b>V</b>	~ 100
Spike level	101	60	73
BFB	101	60	/3

ICF ID	LON-SS05-SD07	LON-SS05-SD08	LON-SS05-2SD09
F&BI Number	724	704	1788
Sample Type	soil	soil	soil by
Date Received	8/26/93	8/26/93	9/4/93
% Dry Weight	75	5 <b>7</b>	67
Sequence Date	#6-08/26/93	#6-08/26/93	#5-09/08/93
Leaded Gas			
JP-4	< 70	< 90	< 70
Lube Oil	<130	< 180	< 140
Diesel	80 oil <70	90 エ	< 70
Spike Level			
Unknown Semi-volatile		90 biological	
Pentacosane	98	108	80
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			-
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	#1&2-08/28/93	#1&2-08/28/93	
Vol Sequence	#102-00/20/33	#102-00/20/93	
CCI4 TCA			
Benzene	< 0.03	< 0.04	
TCE	<b>\0.00</b>	<b>\0.04</b>	:
Toluene	< 0.03	< 0.04	
PCE	<b>\0.00</b>	, VIVT	
Ethylbenzene	< 0.03	< 0.04	_
Xylenes	< 0.06	<0.08	
Gasoline	<3 <b>T</b>	<2 T	
Spike level	70 7	\	
BFB	86	97	
ω ι ω	00	<b>,</b>	

ICF ID	LON-SS05-2SD10	LON-SS05-2SD11	LON-SS05-2SD12
F&BI Number	1789	1790	امن 1791
Sample Type	soil	soil	soil b-
Date Received	9/4/93	9/4/93	9/4/93
% Dry Weight	65	72	58
Sequence Date	#5-09/08/93	#5-09/08/93	#5-09/08/93
Leaded Gas			
JP-4	< 70	< 70	< 100
Lube Oil	< 140	< 140	< 200
Diesel	< 70	< 70	<100 < 90
Spike Level			
Unknown Semi-volatile			
Pentacosane	89	81	85
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			
CCI4			
TCA			
Benzene			
TCE			
Toluene			
PCE			
Ethylbenzene			
Xylenes			
Gasoline			
Spike level			
DED.			

BFB

	0.0000000000000000000000000000000000000		
ICF ID	LON-SS05-2SD13	LON-SS05-2SD14	LON-SS05-SW01
F&Bl Number	1792	1793	658
Sample Type	soil	soil	water
Date Received	9/4/93	9/4/93	8/26/93
% Dry Weight	90	76	
Sequence Date	#5-09/08/93	#5-09/08/93	#5-08/27/93
Leaded Gas			
JP-4	< 60	< 70	< 200
Lube Oil	<120	< 140	< 2000
Diesel	140 80J	3102205	£200 61000
Spike Level			
Unknown Semi-volatile			
Pentacosane	97	95	105
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			
CCI4			
TCA			
Benzene			
TCE			4
Toluene			
DOE			

PCE

Ethylbenzene Xylenes Gasoline Spike level BFB

ICF ID	LON-SS05-SW01	LON-SS05-SW02	LON-SS05-SW02 668 water 8/26/93   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continued   Continue
	660	667	668 Con 1 mm
F&BI Number			by as
Sample Type	water	water	water by sas
Date Received	8/26/93	8/26/93	8/26/93 1 ⁰
% Dry Weight			
Sequence Date		#5-08/27/93	
Leaded Gas			
JP-4		< 200	
Lube Oil		< 2000	
Diesel		£20041000	
Spike Level			
Unknown Semi-volatile			
Pentacosane		111	
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			W00 4 00 10 T 10 0
Vol Sequence	#3&4-08/25/93		#3&4-08/25/93
CCI4			
TCA			
Benzene	< 1		<1
TCE			·:
Toluene	<1		<1
PCE			
Ethylbenzene	< 1		<1
Xylenes	< 2		<2
Gasoline	550 c/00J		£50 00J</td
Spike level	J-00 0700 g		200 7
BFB	104		150
DFD	104		150

IOT ID	LON-SS05-SW03	LON-SS05-SW03	LON-SS05-SW04
ICF ID	675	678	679
F&BI Number	water	water	water by Eas
Sample Type	8/26/93	8/26/93	8/26/93
Date Received	6/20/93	0/20/33	0/20/00
% Dry Weight	#5-08/27/93		#5-08/27/93
Sequence Date	#5-08/27/93		## OG/E1/00
Leaded Gas	< 200		< 200
JP-4	< 2000		< 2000
Lube Oil	<2000 <b>≤20</b> 0 <b><!--00</b-->0</b>		≤200 € 1000
Diesel	22002/200		2200
Spike Level			
Unknown Semi-volatile	102		88
Pentacosane	102		33
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			_
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence		#3&4-08/25/93	
CCI4			
TCA			
Benzene		21	
TCE			:
Toluene		< 1	
PCE			
Ethylbenzene		10 ブ	_
Xylenes		46 T	
Gasoline		240√	
Spike level		·	
BFB		144	
5. 5		•	

			,
ICF ID	LON-SS05-SW04	LON-SS05-SW05	LON-SS05-SW05 764 water 8/26/93 10
F&BI Number	680	762	764 Com (A)
Sample Type	water	water	water by gs
Date Received	8/26/93	8/26/93	8/26/93
% Dry Weight			1-
Sequence Date		#5-08/27/93	
Leaded Gas			
JP-4		< 200	
Lube Oil		< 2000	
Diesel		5200 21000	
Spike Level			
Unknown Semi-volatile			
Pentacosane		101	
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3&4-08/25/93		#3&4-08/25/93
CCI4			
TCA			
Benzene	<1		<1
TCE		·:	
Toluene	<1		<1
PCE			
Ethylbenzene	<1		<1
Xylenes	<2		<2
Gasoline	250C100J		\$50 < 100
Spike level			700 1100
BFB	118		115
5. 5	110		110

ICF ID	LON-SS05-SW05	LON-SS05-SW06	LON-SS05-SW06
F&BI Number	767	772	774 pilan
Sample Type	water	water	water (4)
Date Received	8/26/93	8/26/93	8/26/93
% Dry Weight			W
Sequence Date		#5-08/27/93	
Leaded Gas			
JP-4		< 200	
Lube Oil		< 2000	
Diesel		£200 21000	
Spike Level			
Unknown Semi-volatile			
Pentacosane	•	96	
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254 PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level	#3&4-08/25/93		#3&4-08/25/93
Vol Sequence	#304-06/25/93		#304-00/23/33
CCI4 TCA			
Benzene	<1		<1
TCE	~ 1	*	
Toluene	<1		<1
PCE	- ,		
Ethylbenzene	<1		<1
Xylenes	< 2		<2
Gasoline	580 4100		£50 4100
Spike level			
BFB	119		114

ICF ID	LON-SS05-SW07	LON-SS05-SW07	LON-SS05-SW08
F&BI Number	738	739	742 OM 4
Sample Type	water	water	water by $\zeta$ ,9°
Date Received	8/26/93	8/26/93	8/26/93 เ ^อ ้ ์
% Dry Weight			
Sequence Date	#5-08/27/93		#5-08/27/93
Leaded Gas			
JP-4	< 200		< 200
Lube Oil	< 2000		< 2000
Diesel	<200 - 1000		<200 c1000
Spike Level			
Unknown Semi-volatile			
Pentacosane	109		89
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level Vol Sequence		#3&4-08/25/93	
CCI4		#384-06/25/93	
TCA			
		<1	
Benzene		< i	
TCE			
Toluene		<1	
PCE		- 1	
Ethylbenzene		<1	
Xylenes		<2 - For a sea	
Gasoline		£50° 2100	
Spike level		400	
BFB		139	

LON-SS05-SW08 ICF ID 745 F&BI Number water Sample Type 8/26/93 **Date Received** % Dry Weight Sequence Date Leaded Gas JP-4 Lube Oil Diesel Spike Level Unknown Semi-volatile Pentacosane Sequence Date PCB 1221 PCB 1232 PCB 1016 PCB 1242 PCB 1248 PCB 1254 PCB 1260 Spike Level Dibutyl Chlorendate Sequence Date alpha-BHC beta-BHC gamma-BHC delta-BHC Heptachlor Aldrin Heptachlor Epoxide Endosulfan I DDE Dieldrin Endrin Endosulfan II DDD Endrin Aldehyde DDT Endosulfan Sulfate Endrin Ketone Methoxy Chlor Chlordane Dibutyl Chlorendate Spike Level #3&4-08/25/93 Vol Sequence CCI4 TCA < 1 Benzene TCE < 1 Toluene PCE < 1 Ethylbenzene **Xylenes** <2 £50<100 Gasoline Spike level

118

BFB

ANALYTICAL DATA SHEETS FOR THE OLD DUMP SITE (LF07)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.#

:93.4425-7

Client Sample ID :LON-LF07-S03

Matrix

:SOIL

Client Name

Ordered By Project Name

:DEW LINE

Project# PWSID

:UA

:ICF KAISER ENGINEERING :RAY MORRIS

:LONELY

ANCHORAGE, AK 99518 TEL. (907) 562-2343 FAX: (907) 561-5301

5633 B STREET

WORK Order :70211

Report Completed :10/27/93 Collected :08/26/93

@ 16:01 hrs Received :08/29/93 @ 12:45 hrs.

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

				•	Quali	Ties /Pornin	ust		
			QC		- INCAR	Allowable	Ext.	Anal	
	Parameter	Results	Qual	Units	Method	Limits	Date	Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.020	U	mg/Kg	EPA 8260(丁)	-A 1	08/30	09/13	KWM
	Bromobenzene	0.020	U	mg/Kg	EPA 8260;	,,,,	08/30		KWM
	Bromochloromethane	0.020	U	mg/Kg	EPA 8260		08/30		KWH
	Bromodichloromethane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Bromoform	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Bromomethane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	n-Butylbenzene	0.020	U	mg/Kg	EPA 8260		08/30		KWH
	sec-Butylbenzene	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	tert-Butylbenzne	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Carbon Tetrachloride	0.020	U	mg/Kg	EPA 8260		08/30		KWH
	Chlorobenzene	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Chloroethane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Chloroform	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Chloromethane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	2-Chlorotoluene	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	4-Chlorotoluene	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Dibromochloromethane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	12Dibromo3Chloropropane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	1,2-Dibromoethane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Dibromomethane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	1.2-Dichlorobenzene	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
	1,3-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	1,4-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	Dichlorodifluoromethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	1,1-Dichloroethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	1,2-Dichloroethane	0.020	บ	mg/Kg	EPA 8260		08/30	09/13	KWM
	1,1-Dichloroethene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	cis-1,2-Dichloroethene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
	trans1,2-Dichloroethene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWH
	1,2-Dichloropropane	0.020	Ü	mg/Kg	EPA 8260		08/30	09/13	KWM
	1,3-Dichloropropane	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	2,2-Dichloropropane	0.020	U	mg/Kg	EPA 8260	•	08/30	09/13	KWM
	1,1-Dichloropropene	0.020	U	mg∕Kg	EPA 8260		08/30	09/13	KWM
	Ethylbenzene	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	Hexachlorobutadiene	0.020	U	mg/Kg	EPA 8260		08/30		KWM
	sopropylbenzene	0.020	U	mg/Kg	EPA 8260		08/30		KWH
er _e je	p-Isopropyltoluene	0.020	U	mg/Kg	EPA 8260 🧹		08/30	09/13	KWH
					_				



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STF Chemlab Ref.# :93.4425-7 ANCHORAGE, AK 995 aualfier Comments Client Sample ID :LON-LF07-S03 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :SOIL EPA 8260(J) A./ 08/30 09/13 Methylene Chloride 0.020 U mq/Kq KWM 08/30 09/13 KMM Napthalene 0.020 U mq/Kg EPA 8260 08/30 09/13 n-Propylbenzene 0.020 U mg/Kg EPA 8260 KWM 08/30 09/13 Styrene 0.020 U mg/Kg EPA 8260 KWM 1112-Tetrachloroethane EPA 8260 08/30 09/13 KWM 0.020 U mg/Kg 08/30 09/13 1122-Tetrachloroethane 0.020 U mg/Kg EPA 8260 KWM Tetrachloroethene 08/30 09/13 0.020 EPA 8260 KWM U mg/Kg 08/30 09/13 0.020 U mg/Kg EPA 8260 KWM Toluene 08/30 09/13 1,2,3-Trichlorobenzene 0.020 U mq/Kq EPA 8260 KWM 08/30 09/13 1.2.4-Trichlorobenzene 0.020 mg/Kg EPA 8260 KWM 1,1,1-Trichloroethane 0.020 EPA 8260 08/30 09/13 KWM mg/Kg 1,1,2-Trichloroethane 0.020 U mg/Kg EPA 8260 08/30 09/13 KWM Trichloroethene 0.020 U mq/Kq EPA 8260 08/30 09/13 KWM 08/30 09/13 Trichlorofluoromethane 0.020 H mg/Kg EPA 8260 | KWH 08/30 09/13 1,2,3-Trichloropropane 0.020 U mq/Kq EPA 8260 KWM 08/30 09/13 1,2,4-Trimethylbenzene 0.020 U ma/Ka EPA 8260 KWH 08/30 09/13 0.020 EPA 8260 1,3,5-Trimethylbenzene 11 mq/Kq KWM EPA 8260 08/30 09/13 Vinyl Chloride 0.020 U mg/Kg KWM 08/30 09/13 p+m-Xylene 0.020 [] mq/Kq EPA 8260 KWM EPA 8260x 08/30 09/13 o-Xylene 0.020 KWM mg/Kg Semivolatile Organics EPA 8270 EPA 8270 09/09 10/03 MTT Phenol 0.200 U mq/Kq 09/09 10/03 EPA 8270 bis(2-Chloroethyl)ether 0.200 U mg/Kg 09/09 10/03 0.200 EPA 8270 2-Chlorophenol U ma/Ka EPA 8270
EPA 8270
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EPA 8270 09/09 10/03 1.3-Dichlorobenzene 0.200 U mg/Kg EPA 8270 HII 0.200 U 1.4-Dichlorobenzene mg/Kg MIT 0.966 1.00 mg/Kg Benzyl Alcohol MTT 0.200 1,2-Dichlorobenzene U mg/Kg MTT MIT 2-Methylphenol 0.200 U ma/Ka 0.200 bis(2-Chloroisopropyl)e U MTT mg/Kg 0.200 4-Methylphenol U mq/Kq MIT n-Nitroso-di-n-Propylam 0.200 U mg/Kg MTT Hexachloroethane 0.200 U ma/Ka MTT 09/09 10/03 Nitrobenzene 0.200 U EPA 8270 MTT ma/Ka 09/09 10/03 0.200 EPA 8270 Isophorone U mg/Kg MTT 09/09 10/03 2-Nitrophenol 0.200 U mg/Kg EPA 8270 MTT 09/09 10/03 2,4-Dimethylphenol 0.200 U EPA 8270 MIT mg/Kg 09/09 10/03 0.200 EPA 8270 MTT Benzoic Acid U mg/Kg bis(2-Chloroethoxy)Meth 0.200 U EPA 8270 09/09 10/03 MTT mg/Kg 09/09 10/03 2,4-Dichlorophenol 0.200 U mg/Kg EPA 8270 MIT 09/09 10/03 1,2,4-Trichlorobenzene 0.200 U mg/Kg EPA 8270 MIT EPA 8270 09/09 10/03 MTT Naphthalene 0.200 U mg/Kg 09/09 10/03 4-Chloroaniline 0.200 U mg/Kg EPA 8270 MTT 09/09 10/03 0.200 EPA 8270 MTT Hexachlorobutadiene mg/Kg 4-Chloro-3-Methylphenol 0.200 U mg/Kg EPA 8270 09/09 10/03 MIT 2-Methylnaphthalene 0.200 U EPA 8270 09/09 10/03 MTT mg/Kg 09/09 10/03 Hexachlorocyclopentadie 0.200 U EPA 8270 MTT mg/Kg 0.200 U EPA 8270 09/09 10/03 MTT 2,4,6-Trichlorophenol mg/Kg 2,4,5-Trichlorophenol 0.200 U mg/Kg EPA 8270 09/09 10/03 MTT 0.200 U 09/09 10/03 MTT 2-Chloronaphthalene mg/Kg EPA 8270





ENVIRONMENTAL LABORATORY SERVICES

(20 )23	·····	DEDC	ORT of ANAL	VCTC					
Chemlab Ref.# :93.4425-7		REFU	RI OI ANAL	1212				5633 B S1	REET
Client Sample ID :LON-LF07-S03							ANCH	IORAGE, AK	99518
Matrix :SOIL						11 /	F	TEL: (907) 56: FAX: (907) 56	2-23-13
		$\circ$	11.	+	( <i>VU</i>	alifies/( pour	g `	~~. (301) 30	1.3301
2-Nitroaniline	0.200	U	dyn Mg/Kg	ment	8270	1 / SOM	10/1	10/03	HTT
Dimethylphthalate	0.200	_	mg/Kg		8270	V /		10/03	HTT
Acenaphthylene	0.200		mg/Kg		8270			10/03	MTT
2,6-Dinitrotoluene	0.200	Ü	mg/Kg		8270			10/03	MTT
3-Nitroaniline	0.200	-	mg/Kg		8270	,		10/03	MTT
Acenaphthene	0.200	Ŭ	mg/Kg		8270			10/03	HTT
2,4-Dinitrophenol	0.200	บ	mg/Kg		8270			10/03	MTT
4-Nitrophenol	0.200	Ü	mg/Kg		8270			10/03	MTT
Dibenzofuran	0.200	บ	mg/Kg		8270			10/03	MTT
2,4-Dinitrotoluene	0.200	Ü	mg/Kg		8270			10/03	HTT
Diethylphthalate	0.200	Ü	mg/Kg		8270			10/03	MIT
4-Chlorophenyl-Phenylet	0.200	Ü	mg/Kg		8270			10/03	HTT
Fluorene	0.200	Ū	mg/Kg		8270			10/03	MIT
4-Nitroaniline	0.200	Ŭ	mg/Kg		8270			10/03	HTT
4,6-Dinitro-2-Methylphe	0.200	Ū	mg/Kg		8270			10/03	MTT
n-Nitrosodiphenylamine	0.200	Ū	mg/Kg		8270			10/03	MTT
4-Bromophenyl-Phenyleth	0.200	U	mg/Kg		8270			10/03	MIT
Hexachlorobenzene	0.200	U	mg/Kg		8270			10/03	MTT
Pentachlorophenol	0.200	U	mg/Kg		8270			10/03	MIT
Phenanthrene	0.200	U	mg/Kg		8270			10/03	HTT
Anthracene	0.200	U	mg/Kg		8270			10/03	MTT
di-n-Butylphthalate 0.335	-1.00	पी	mg/Kg	EPA	8270 ( U	1-F.1		10/03	MII
uoranthene	0.200	Ú	mg/Kg		8270	, .,		10/03	MTT
rene	0.200	U	mg/Kg		8270			10/03	MIT
Butylbenzylphthalate	0.200	บ	mg/Kg		8270			10/03	MTT
3,3-Dichlorobenzidine	0.200	U	mg/Kg		8270			10/03	HTT
Benzo(a)Anthracene	0.200	U	mg/Kg		8270			10/03	HTT
Chrysene	0.200	Ų	mg/Kg	FPA	8270			10/03	MTT
bis(2-Ethylhexyl)Phthal o. 148	-1:00	<del>- 6</del>	mg/Kg	EPA	8270 (U	)-E.		10/03	MIT
di-n-Octylphthalate	0.200	U	mg/Kg	EPA	8270	•		10/03	MTT
Benzo(b)Fluoranthene	0.200	U	mg/Kg	EPA	8270		09/09	10/03	HTT
Benzo(k)Fluoranthene	0.200	U	mg/Kg	EPA	8270		09/09	10/03	HTT
Benzo(a)Pyrene	0.200		mg/Kg	EPA	8270		09/09	10/03	MIT
Indeno(1,2,3-cd)Pyrene	0.200	U	mg/Kg	EPA	8270		09/09	10/03	MTT
Dibenz(a,h)Anthracene	0.200	Ü	mg/Kg		8270			10/03	HTT
Benzo(g,h,i)Perylene	0.200	U	<b>mg∕K</b> g	EPA	8270		09/09	10/03	HTT
01									
Sample Preparation			E	PA 30	50 Diges	st			
Total Metals Analysis					-				
ICP Screen, ICF					<b>PA</b>	n/a			
Aluminum	1600	Ü	mg/Kg		6010			09/02	DFL
Antimony	48	U	mg/Kg		6010			09/02	DFL
Arsenic Barium	48	U	mg/Kg		6010			09/02	DFL
Beryllium	65	••	mg/Kg		6010			09/02	DFL
Cadmium	2.4	U	mg/Kg		6010			09/02	DFL
Calcium	2.4	U,	mg/Kg		6010	<b>.</b>		09/02	DFL
Chromium	53000		Jmg/Kg 3.2		6010			09/02	DFL
Cobalt	2.4	Ü	mg/Kg		6010			09/02	DFL
Copper	4.8	U	mg/Kg		6010			09/02	DFL.
ou	24	U	mg/Kg		6010			09/02	DFL
<b>1</b>	8200		<b>mg/K</b> g	EPA	6010		08/31	09/02	DFL
			κ).			(A)			
		a char	4			75 814			
	argu	بر برار،	Ια4			311			
4 h		$\rho$ .	in lay	1.1.00	Our of				
<b>⊚5</b> 5	S Men	ν her of	Comp	upa. O IV	4 11.1644	Supraillanes)			
			e 363 Group	COOCIECE	Cenerale Of	Survemance)			



Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc

TOC, Soil

# COMMERCIAL TESTING & ENGINEERING CO.

REPORT of ANALYSIS

ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4425-7 Client Sample ID :LON-LF07-S03 :SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

	Qualific Comment	
48	U mg/Kg EPA 6010	08/31 09/02 DFL
30000	J mg/Kg j z EPA 6010	08/31 09/02 DFL
110	mg/Kg EPA 6010	08/31 09/02 DFL
2.4	U mg/Kg EPA 6010	08/31 09/02 DFL
3.7	mg/Kg EPA 6010	08/31 09/02 DFL
370	mg/Kg EPA 6010	08/31 09/06 DLG
48	U mg/Kg EPA 6010	08/31 09/02 DFL
24	U Rmg/Kg B (, J. ) EPA 6010	08/31 09/02 DFL
120	mg/Kg EPA 6010	08/31 09/06 DLG
0.26	U mg/Kg EPA 7841	08/30 09/01 KAW
15	mg/Kg EPA 6010	08/31 09/02 DFL
7.5	mg/Kg EPA 6010	08/31 09/02 DFL
1.5	mg/ng Lin core	
9040	mg/Kg PSEP Ref Lab	

All chays s. 2 2/16/94

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than





REPORT of ANALYSIS

ENVIRONMENTAL LABORATORY SERVICES

hemlab Ref.# :93.4428-20 Client Sample ID :LON LF01 SW02

:WATER LFO7

6-1-94

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name

:RAY MORRIS :DEW LINE

Project# PWSID

:LONELY :UA

WORK Order

:70217

Report Completed :09/29/93 Collected

:08/26/93

@ 16:48 hr:

Received

:08/29/93 @ 12:45 hr:

Technical Director: STEPHEN C. EDE

Released By : State C. 4

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER J.J., AND S.S.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Inii
	Volatile Organics				EPA 8260				*
	Benzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWI
	Bromobenzene	0.0010	U	mg/L	EPA 8260		03/03	09/03	.KMJ
	Bromochloromethane	0.0010	Ū	mg/L	EPA 8260			09/03	KWI
	Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	KMJ
	Bromoform	0.0010	U	mg/L	EPA 8260			09/03	
	Bromomethane	0.0010	Ū	mg/L	EPA 8260			09/03	KWI KWI
	n-Butylbenzene	0.0010	Ū	mg/L	EPA 8260		09/03	09/03	
	sec-Butylbenzene	0.0010	Ū	mg/L	EPA 8260				KWP
	tert-Butylbenzne	0.0010	Ū	mg/L	EPA 8260		09/03	09/03	KWP
	Carbon Tetrachloride	0.0010	Ü	mg/L	EPA 8260			09/03	KWP
<b>T</b>	Chlorobenzene	0.0010	Ū	mg/L	EPA 8260				KWP
	Chloroethane	0.0010	Ū	mg/L	EPA 8260		09/03	09/03	KWI.
	Chloroform	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	Chloromethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWP
	2-Chlorotoluene	0.0010	Ü	mg/L	EPA 8260				KWP.
	4-Chlorotoluene	0.0010	Ū	mg/L	EPA 8260		09/03 09/03		KWM.
	Dibromochloromethane	0.0010	บิ	mg/L	EPA 8260				KWH
	12Dibromo3Chloropropane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	1,2-Dibromoethane	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	Dibromomethane	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	1,2-Dichlorobenzene	0.0010	Ū	mg/L	EPA 8260		09/03 09/03		KWM
	1,3-Dichlorobenzene	0.0010	Ŭ	mg/L	EPA 8260				KWM
	1,4-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260		09/03		KWH
	Dichlorodifluoromethane	0.0010	Ū	mg/L	EPA 8260		09/03	03/03	KWM
	1,1-Dichloroethane	0.0010	Ū	mg/L	EPA 8260		09/03 09/03		KWM
	1,2-Dichloroethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	1,1-Dichloroethene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	cis-1,2-Dichloroethene	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	trans1,2-Dichloroethene	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	1,2-Dichloropropane	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	1,3-Dichloropropane	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	2,2-Dichloropropane	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	1,1-Dichloropropene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	Ethylbenzene	0.0010	บั	mg/L	EPA 8260		09/03		KWM KWM
	Hexachlorobutadiene	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	Isopropylbenzene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	p-Isopropyltoluene	0.0010	บั	mg/L	EPA 8260		09/03		KWM KWM
			-	∋/ ₩	n 0200		03/03	07/03	VAU



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STRE Chemlab Ref.# :93.4428-2 ANCHORAGE, AK 99518 TEL: (907) 562-2343 Client Sample ID :LON LFOY SW02 5.0 FAX: (907) 561-5301 Matrix :WATER UL Methylene Chloride EPA 8260 09/03 09/03 KW! 0.0010 U mg/L Napthalene 0.0010 U EPA 8260 09/03 09/03 KWI mg/L n-Propylbenzene KWI 0.0010 U mg/L EPA 8260 09/03 09/03 Styrene 0.0010 09/03 09/03 KWI U mg/L EPA 8260 1112-Tetrachloroethane KWI 0.0010 U mg/L EPA 8260 09/03 09/03 1122-Tetrachloroethane 0.0010 U EPA 8260 09/03 09/03 KWI mg/L Tetrachloroethene 0.0010 Ü EPA 8260 09/03 09/03 KWY. mg/L Toluene 0.0010 U EPA 8260 09/03 09/03 mg/L KWI 1,2,3-Trichlorobenzene 0.0010 U EPA 8260 09/03 09/03 KWI. mg/L 1,2,4-Trichlorobenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWY. 1,1,1-Trichloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWM 1,1,2-Trichloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWY. Trichloroethene 0.0010 U mq/L EPA 8260 09/03 09/03 KWM Trichlorofluoromethane 0.0010 EPA 8260 U mg/L 09/03 09/03 KWM 1.2.3-Trichloropropane 0.0010 U mg/L EPA 8260 09/03 09/03 KWM 1,2,4-Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 · KWM 1,3,5-Trimethylbenzene 0.0010 11 mg/L EPA 8260 09/03 09/03 KWM Vinyl Chloride 0.0010 Ü mg/L EPA 8260 09/03 09/03 KWM p+m-Xylene 0.0010 U mg/L EPA 8260 09/03 09/03 KWM o-Xylene 0.0010 mg/L EPA 8260 09/03 09/03 KWM Total Metals Analysis ICP Screen, ICF EPA n/a EPA 6010 Aluminum 0.43 U mq/L 09/07 09/10 Antimony 0.10 U EPA 6010 09/07 09/10 mg/L DLG 0.10 Arsenic U EPA 6010 09/07 09/10 mg/L DLG 0.17 Barium EPA 6010 09/07 09/10 mg/L DLG Beryllium 0.050 U EPA 6010 09/07 09/10 mg/L DLG Cadmium 0.050 U EPA 6010 09/07 09/10 mg/L DLG Calcium 80 EPA 6010 09/07 09/10 mq/L DLG Chromium 0.050 U mg/L EPA 6010 09/07 09/10 DLG U mg/L U mg/L Cobalt 0.10 EPA 6010 09/07 09/10 DLG EPA 6010 0.050 Copper 09/07 09/10 DLG Iron EPA 6010 09/07 09/10 1.1 mg/L DLG Lead 0.10 EPA 6010 09/07 09/10 U mg/L DLG EPA 6010 09/07 09/10 Magnesium 44 mg/L DLG 0.27 EPA 6010 Manganese 09/07 09/10 mg/L Molybdenum 0.050 U EPA 6010 09/07 09/10 mq/L DLG 0.050 U mg/L Nickel EPA 6010 09/07 09/10 DLG Potassium 5.0 U mg/L EPA 6010 09/07 09/10 DLG Selenium 0.10 U EPA 6010 09/07 09/10 mg/L DLG Silver 0.050 mg/L EPA 6010(3)-J. 09/07 09/10 U DLG 130 mg/L Sodium EPA 6010 09/07 09/10 DLG 0.005 U Thallium EPA 7841 09/06 09/08 mg/L BMW 0.050 U EPA 6010 09/07 09/10 Vanadium mg/L DLG Zinc 0.050 U EPA 6010 09/07 09/10 mg/L DLG Dissolved Metals Analys ICP Screen, ICF EPA n/a Aluminum 0.10 U mq/L EPA 6010 09/07 09/10 DLG



09/07 09/10



Antimony

0.10 U

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EPA 6010

mg/L

# COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

	REFO	RT of ANA	LYSIS X		5633 B STR ANCHORAGE, AK 99	
Client Sample ID :LON CF01					TEL: (907) 562-2	2343
Matrix :WATERLFO?			•		FAX: (907) 561-	5301
MAILTIN : MAILTING!	ه. ل . ه	alfier Com	unt			
Methylene Chloride	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
Napthalene	. 0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
n-Propylbenzene	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
Styrene	0.0010 U		EPA 8260		09/03 09/03	KWM
1112-Tetrachloroethane		mg/L	EPA 8260		09/03 09/03	KWM
		mg/L			09/03 09/03	KWM
1122-Tetrachloroethane		mg/L	EPA 8260		09/03 09/03	KWM
Tetrachloroethene	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
Toluene	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
1,2,3-Trichlorobenzene	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
1,2,4-Trichlorobenzene	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
1,1,1-Trichloroethane	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
1,1,2-Trichloroethane	0.0010 U	mg/L	EPA 8260			KWM
Trichloroethene	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
Trichlorofluoromethane	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
1,2,3-Trichloropropane	0.0010 U	mg/L	EPA 8260		09/03 09/03	
1,2,4-Trimethylbenzene	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
1,3,5-Trimethylbenzene	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
Vinyl Chloride	0.0010 U	mg/L	EPA 8260		09/03 09/03	KWM
p+m-Xylene	0. <b>001</b> 0 U	mg/L	EPA 8260		09/03 09/03	KWM
o-Xylene	0.0010 U	mg/L	EPA 8260		09/03 0 <b>9/03</b>	KWM
Total Metals Analysis ICP Screen, ICF Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	0.43 U 0.10 U 0.10 U 0.17 0.050 U 0.050 U 0.050 U 0.10 U 0.050 U 1.1 0.10 U 44 0.27 0.050 U 0.050 U 0.10 U 0.050 U 0.10 U 0.050 U 0.050 U 0.050 U 0.050 U	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010	n/a	09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10	DLG DLG DLG DLG DLG DLG DLG DLG DLG DLG
Dissolved Metals Analys ICP Screen, ICF Aluminum Antimony	0.10 U 0.10 U	mg/L mg/L	- EPA EPA 6010 EPA 6010	: n/a	09/07 09/10 09/07 09/10	

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ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4428- Client Sample ID :LON LFOI	2	REP	ORT of ANALY	sis XV		TEL	5633 B STR RAGE, AK 99 L. (907) 562-3 K (907) 561-3	9518 2343
Matrix :WATER 40	7,.0	Ü	justifice Comert	<u>-</u>		, , ,	. 13371331	
Arsenic	0.10	U	mg/L	EPA 6010		09/07 (		DLG
Barium	0.12	_	mg/L	EPA 6010		09/07 (		DLG
Beryllium	0.050	U	mg/L	EPA 6010		09/07 (	09/10	DLG
Cadmium	0.050	U	mg/L	EPA 6010		09/07 (		DLG
Calcium	78		mg/L	EPA 6010		09/07 (	09/10	D <b>LG</b>
Chromium	0.050	U	mg/L	EPA 6010		09/07	09/10	DLG
Cobalt	0.10	Ü	mg/L	EPA 6010		09/07		DLG
Copper	0.050	Ū	mg/L	EPA 6010		09/07	09/10	DLG
Iron	0.10	Ū	mg/L	EPA 6010		09/07	09/10	DLG
Lead	0.10	Ū	mg/L	EPA 6010		09/07	09/10	DLG
Magnesium	42	_	J mg/L J. l	EPA 6010		09/07	09/10	DLG
Manganese	0.069		mg/L	EPA 6010		09/07	09/10	D <b>LG</b>
Molybdenum	0.050	Ü	mg/L	EPA 6010		09/07	09/10	DLG
Nickel	0.050	Ü	mg/L	EPA 6010		09/07	09/10	DLG
Potassium	5.0	Ü	mg/L	EPA 6010		09/07	09/10	DLG
Selenium	0.10	Ü	mg/L	EPA 6010		09/07	09/10	DLG
Silver	0.050	Ü	mg/L	EPA 6010		09/07	09/10	D <b>LG</b>
Sodium	120	J	mg/L	EPA 6010		09/07	09/10	DLG
Thallium	0.005	U	mg/L	EPA 7841		09/06	09/08	B <b>MW</b>
Vanadium	0.050	Ü	mq/L	EPA 6010		09/07	09/10	DLG
Zinc	0.050	Ü	mg/L	EPA 6010		09/07	09/10	—D <b>ĿĢ</b> —
21110	0.000	Ū	37 =			9/11	09/14	DFL
TOC, Nonpurgable				EPA 9060	n/a			
TOC Range	32.0-33.6		mg/L	EPA 9060			09/08	CMR
TOC Concentration	32.6		mg/L	EPA 9060			09/08	Cl
***************************************			<b>-</b> -	1				
Residue, Non-Filterable	4.5		mg/L	EPA 160.2		09/02		GPP
Residue,Filterable(TDS)	972	•	mg/L	EPA 160.1	500		09/10	R <b>JK</b>

All chape 1. 2 2 (16 ) 9 4

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



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			t
ICF ID	LON-LF07-S01	LON-LF07-S02	LON-LF07-S03
F&BI Number	992	914	966
Sample Type	soil	soil	soil Cor 47 95
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	91	80	97
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas	.50	100	450
JP-4	< 50	<60	<50 <100
Lube Oil	180	<120 <60	< 100 < 50
Diesel	<b>&lt;</b> 50	< 60	< 50
Spike Level			
Unknown Semi-volatile	101	92	91
Pentacosane	#6-08/28/93	#6-08/28/93	#6-08/28/93
Sequence Date PCB 1221	<0.1	<0.1	<0.1
PCB 1232	<0.1	<0.1	<0.1
PCB 1016	<0.1	<0.1	<0.1
PCB 1242	<0.1	<0.1	<0.1
PCB 1248	<0.1	<0.1	<0.1
PCB 1254	<0.1	<0.1	<0.1
PCB 1260	<0.1	<0.1	<0.1
Spike Level	<b>\0.1</b>	<b>\(\frac{1}{0.1}\)</b>	<b>VO.1</b>
Dibutyl Chlorendate	101	92	91
Sequence Date	101	32	
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3-08/28/93, #4-08/29/9	3 #3-08/28/93, #4-08/29/93	#3-08/28/93, #4-08/29/93
CCI4	< 0.02	< 0.02	< 0.02
TCA	< 0.02	< 0.02	< 0.02
Benzene	< 0.02	< 0.03	< 0.02
TCE	< 0.02	< 0.03	<0.02
Toluene	< 0.02	< 0.03	< 0.02
PCE	< 0.02	< 0.03	< 0.02
Ethylbenzene	< 0.02	< 0.05	< 0.02
Xylenes	< 0.04	< 0.05	< 0.04
Gasoline	<2 <b>T</b>	<3 T	<2 J
Spike level			
BFB	99	96	100

		. 011 1 507 005	LON LEGT COE
ICF ID	LON-LF07-S04	LON-LF07-S05	LON-LF07-S05
F&BI Number	968	910	910 dup
Sample Type	soil	soil	30II L.
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	98	97	#C 00/20/02
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas		.50	<50
JP-4	< 50	< 50	<100
Lube Oil	1500	<100	< 50
Diesel	80 J	< 50	< 50
Spike Level			
Unknown Semi-volatile	100	123	98
Pentacosane	100	#6-08/28/93	#6-08/28/93
Sequence Date	#6-08/29/93	#0-08/28/93 <0.1	<0.1
PCB 1221	<0.1	<0.1	<0.1
PCB 1232	<0.1 <0.1	<0.1	<0.1
PCB 1016		<0.1	<0.1
PCB 1242	<0.1	< 0.1	<0.1
PCB 1248	<0.1	< 0.1	<0.1
PCB 1254	<0.1	< 0.1	<0.1
PCB 1260	< 0.1	<0.1	<0.1
Spike Level	102	98	98
Dibutyl Chlorendate	103	30	30
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE Dialdrin			
Dieldrin Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3-08/28/93, #4-08/29/93	#3&4-08/29/93	#4-08/29/93
CCI4	< 0.02	< 0.02	
TCA	< 0.02	< 0.02	
Benzene	< 0.02	< 0.02	< 0.02
TCE	< 0.02	< 0.02	*
Toluene	< 0.02	< 0.02	< 0.02
PCE	< 0.02	< 0.02	
Ethylbenzene	< 0.02	< 0.02	< 0.02
Xylenes	< 0.04	< 0.04	< 0.04
Gasoline	<2 丁	<2 J	<2
Spike level			
BFB	102	126	96

ICF ID	LON-LF07-S05	LON-LF07-S05	المحاد LON-LF07-S06
F&BI Number	910 ms	910 msd	912
Sample Type	soil	soil	soil by 195
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight			95
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas			
JP-4			< 50
Lube Oil			5900
Diesel	82	88	270 J
Spike Level	500	500	
Unknown Semi-volatile			
Pentacosane	139	140	90
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
PCB 1221			< 0.1
PCB 1232			< 0.1
PCB 1016			< 0.1
PCB 1242			< 0.1
PCB 1248			< 0.1
PCB 1254	92	94	< 0.1
PCB 1260			< 0.1
Spike Level	10	10	
Dibutyl Chlorendate	140	140	123
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence		#3&4-08/31/93	#3-08/28/93, #4-08/29/93
CCI4			< 0.02
TCA			< 0.02
Benzene		89	< 0.02
TCE		00	< 0.02
Toluene		82	<0.02
PCE		2.2	<0.02
Ethylbenzene		86	< 0.02
Xylenes		89	<0.04
Gasoline		4000	<2₹
Spike level		1000	22
BFB		95	82

ICF ID	LON-LF07-S06	LON-LF07-S06 912 ms	LON-LF07-S06 912 msd
F&BI Number	912 dup		soil
Sample Type	soil	soil	8/27/93
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight		"0 00 IDD IDD	#6 00/20/02
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas			
JP-4	< 50		
Lube Oil	8100		
Diesel	310	150	116
Spike Level		500	500
Unknown Semi-volatile			
Pentacosane	133	141	128
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
PCB 1221	< 0.1		
PCB 1232	< 0.1		
PCB 1016	< 0.1		
PCB 1242	< 0.1		
PCB 1248	< 0.1		
PCB 1254	< 0.1	102	115
PCB 1260	< 0.1		
Spike Level	10.1	10	10
Dibutyl Chlorendate	134	140	129
Sequence Date	10-1	, , , ,	
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			#3-08/28/93, #4-08/29/93
CCI4			,
TCA			
			108
Benzene TCE			*
			102
Toluene			102
PCE			96
Ethylbenzene			<u>je de la companya di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana di managana</u>
Xylenes			95
Gasoline			
Spike level			
BFB			112

ICF ID	LON-LF07-S07	LON-LF07-S08	LON-LF07-2S08
F&Bl Number	996	994	1778 April 9/10
Sample Type	soil	soil	soil by 195
Date Received	8/27/93	8/27/93	9/5/93
% Dry Weight	85	95	18
Sequence Date	#6-08/28/93	#6-08/28/93	#5-09/06/93
Leaded Gas			
JP-4	< 60	< 50	<300
Lube Oil	120	< 100	< 600
Diesel	< 60	< 50	<300
Spike Level			
Unknown Semi-volatile	0.0	00	110
Pentacosane	96 #6-08/28/93	99 #6-08/28/93	110
Sequence Date	#6-08/28/93 <0.1	#6-08/28/93 <0.1	
PCB 1221 PCB 1232	<0.1	<0.1	
PCB 1232 PCB 1016	<0.1	<0.1	
PCB 1242	<0.1	<0.1	
PCB 1248	<0.1	<0.1	
PCB 1254	<0.1	<0.1	
PCB 1260	<0.1	<0.1	
Spike Level			
Dibutyl Chlorendate	101	99	
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD Endrin Aldahyda			
Endrin Aldehyde DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3-08/28/93, #4-08/29/93	3 #3-08/28/93, #4-08/29/93	
CCI4	< 0.02	< 0.02	
TCA	< 0.02	< 0.02	
Benzene	< 0.02	< 0.02	
TCE	< 0.02	< 0.02	
Toluene	< 0.02	< 0.02	
PCE	< 0.02	< 0.02	
Ethylbenzene	< 0.02	< 0.02	
Xylenes	< 0.04	< 0.04	
Gasoline	<2丁	<2 J	
Spike level	~~ <i>~</i>	100	
BFB	75	108	

ICF ID	LON-LF07-2S09	LON-LF07-SW01	LON-LF07-SW01 1090 (677,477) water 64,5-95
F&BI Number	1779	1088	1090 (8)
Sample Type	soil	water	water by 2,95
Date Received	9/5/93	8/27/93	8/27/93 10 ⁻³
% Dry Weight	64		
Sequence Date	#5-09/06/93	#5-08/30/93	
Leaded Gas			
JP-4	< 70	< 200	
Lube Oil	<140	< 2000	
	<70	£200 e/000	
Diesel	< 70	¥200 F	
Spike Level			
Unknown Semi-volatile	120	40 autoido ropovoru limito	
Pentacosane	120	49 outside recovery limits	
Sequence Date		#5-08/30/1993	
PCB 1221		<2 J	
PCB 1232		<2	
PCB 1016		< 2	
PCB 1242		< 2	
PCB 1248		<2	
PCB 1254		<2	
PCB 1260		<2 ₩	
Spike Level			
Dibutyl Chlorendate		49 outside recovery limits	
Sequence Date		,	
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			#1&2-08/28/93
CCI4			<1
			<1
TCA			<1
Benzene		•	
TCE			∠2 possible carryover √
Toluene			<1
PCE			
Ethylbenzene			∠10 possible carryover ₹
Xylenes			<12 possible carryover T
Gasoline			<50
Spike level			
RER			118

BFB

118

	ICF ID	LON-LF07-SW02	LON-LF07-SW02
	F&BI Number	988	990
	Sample Type	water	water
	Date Received	8/27/93	8/27/93
	% Dry Weight	3,2,,00	3,2,,00
	Sequence Date	#5-08/28/93	
	Leaded Gas	" 0 00/20/00	
	JP-4	< 200	
	Lube Oil	<2000	
	Diesel	5200 4/000	
	Spike Level	2.200	
	Unknown Semi-volatile		
	Pentacosane	111	
	Sequence Date	#5-08/28/93	
	PCB 1221	<2	
	PCB 1232	< 2	
	PCB 1016	<2	
	PCB 1242	<2	
	PCB 1248	<2	
	PCB 1254	< 2	
	PCB 1260	<2	
	Spike Level		
	Dibutyl Chlorendate	111	
	Sequence Date		
	alpha-BHC		
	beta-BHC		
	gamma-BHC		
	delta-BHC		
	Heptachlor		
	Aldrin		
	Heptachlor Epoxide		
	Endosulfan I		
	DDE		
	Dieldrin		
	Endrin		
	Endosulfan II		
	DDD		
	Endrin Aldehyde		
	DDT		
	Endosulfan Sulfate		
	Endrin Ketone		
	Methoxy Chlor		
	Chlordane		
	Dibutyl Chlorendate		
	Spike Level		
	Vol Sequence		#3-08/28/93, #4-08/29/93
	CCI4		<1
	TCA		<1
	Benzene		<1
	TCE		<1
	Toluene		<1
	PCE		<1
ļ	Ethylbenzene		< 1
	Xylenes		<2
	Gasoline		<100 丁
	Spike level		92
			r.O

83

BFB

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ANALYTICAL DATA SHEETS FOR THE GARAGE (SS09)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Temlab Ref.# :93.4427-1 Client Sample ID :LON SS09 S05

Matrix

:SOIL

Client Name Ordered By Project Name

:RAY MORRIS

Project# PWSID

:DEW LINE : LONELY

:ICF KAISER ENGINEERING

:UA

WORK Order :70215

Report Completed :10/21/93

Collected :08/27/93 @ 10:30 hrs. Received :08/29/93 @ 12:45 hrs.

5633 B STREET ANCHORAGE. AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, S.W., ROBERT T., AND JERRY M. B =

THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE ASSOCIATED BLANK

AS WELL AS IN THE SAMPLE.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Bromobenzene	0.050	U	mg/Kg	EPA 8260			09/13	KWM
Bromochloromethane	0.050	U	mg/Kg	EPA 8260			09/13	KWM
Bromodichloromethane	0.050	U	mg/Kg	EPA 8260			09/13	KWM
Bromoform	0.050	U	mg/Kg	EPA 8260			09/13	KWM
Bromomethane	0.050	U	mg/Kg	EPA 8260		08/30		KWM
n-Butylbenzene	0.050	U	mg/Kg	EPA 8260		08/30		KWM
sec-Butylbenzene	0.050	U	mg/Kg	EPA 8260		08/30		KWM
tert-Butylbenzne	0.050	U	mg/Kg	EPA 8260			09/13	KWM
Carbon Tetrachloride	0.050	U	mg/Kg	EPA 8260			09/13	KWM
Chlorobenzene	0.050	U	mg/Kg	EPA 8260		08/30		KWM
Chloroethane	0.050	U	mg/Kg	EPA 8260			09/13	KWM
Chloroform	0.050	U	mg/Kg	EPA 8260			09/13	KWM
Chloromethane	0.050	U	mg/Kg	EPA 8260		08/30		KWM
2-Chlorotoluene	0.050	U	mg/Kg	EPA 8260		08/30		KWM
4-Chlorotoluene	0.050	U	mg/Kg	EPA 8260		08/30		KWM
Dibromochloromethane	0.050	U	mg/Kg	EPA 8260		08/30		KWM
12Dibromo3Chloropropane	0.050	U	mg/Kg	EPA 8260			09/13	KWM
1,2-Dibromoethane	0.050	U	mg/Kg	EPA 8260		08/30		KWM
Dibromomethane	0.050	U	mg/Kg	EPA 8260			09/13	KWM
1,2-Dichlorobenzene	0.050	U	mg/Kg	EPA 8260			09/13	KWM
1,3-Dichlorobenzene	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,4-Dichlorobenzene	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Dichlorodifluoromethane	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,1-Dichloroethane	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,2-Dichloroethane	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,1-Dichloroethene	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
cis-1,2-Dichloroethene	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
trans1,2-Dichloroethene	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,2-Dichloropropane	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,3-Dichloropropane	0.050	U	mg/Kg	EPA 8260	5	08/30	09/13	KWM
2,2-Dichloropropane	0.050	Ü	mg/Kg	EPA 8260		08/30		KWM
1,1-Dichloropropene	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Ethylbenzene	0.050	U	mg/Kg	EPA 8260		08/30		KWM
Hexachlorobutadiene	0.050	U	mg/Kg	EPA 8260		08/30	09/13	KWM



**ENVIRONMENTAL LABORATORY SERVICES** 

Chemlab Ref.# :93.4427-1 Client Sample ID :LON SS09 S05

Matrix

:SOIL

REPORT of ANALYSIS 5633 B STREE ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Isopropylbenzene	0.050	U	mg/Kg	EPA	8260	08/30	09/13	KWM
p-Isopropyltoluene	0.050	U	mg/Kg		8260		09/13	KWM
Methylene Chloride	0.050	U	mg/Kg		8260		09/13	KWM
Napthalene	0.173		mg/Kg		8260		09/13	KWM
n-Propylbenzene	0.050	U	mg/Kg		8260		09/13	KWM
Styrene	0.050	Ū	mg/Kg		8260		09/13	KWM
1112-Tetrachloroethane	0.050	Ū	m <b>g/K</b> g		8260		09/13	KWM
1122-Tetrachloroethane	0.050	Ū	mg/Kg		8260		09/13	KWM
Tetrachloroethene	0.050	Ü	mg/Kg		8260		09/13	KWM
Toluene	0.050	Ü	mg/Kg		8260		09/13	KWM
1,2,3-Trichlorobenzene	0.050	Ü	mg/Kg		8260		09/13	KWM
1,2,4-Trichlorobenzene	0.050	Ü	mg/Kg		8260		09/13	KWM
1,1,1-Trichloroethane	0.050	Ü	mg/Kg		8260		09/13	KWM
1,1,2-Trichloroethane	0.050	Ü	mg/Kg		8260		09/13	KWM
Trichloroethene	0.050	Ü	mg/Kg		8260		09/13	KWM
Trichlorofluoromethane	0.050	Ü	mg/Kg		8260		09/13	KWM
1,2,3-Trichloropropane	0.050	Ü	mg/Kg		8260		09/13	KWM
1,2,4-Trimethylbenzene	0.098	U	mg/Kg		8260		09/13	KMM
1,3,5-Trimethylbenzene	0.227		mg/Kg		8260		09/13	KWM
Vinyl Chloride	0.050	U	mg/Kg		8260		09/13	KWM
p+m-Xylene	0.030	U	mg/Kg		8260		09/13	KWM
o-Xylene	0.107		mg/Kg		8260		09/13	KWM
0 11/2010	0.107		<b>9</b> / 119	ш.	0200	00/30	0 3/ 13	IVAL!
Semivolatile Organics				EPA	8270			4
Phenol	7.20	U	mg/Kg		8270	09/10	10/14	GV
bis(2-Chloroethyl)ether	7.20	Ü	mg/Kg		8270		10/14	G <b>V</b>
2-Chlorophenol	7.20	Ü	mg/Kg		8270		10/14	G <b>V</b>
1,3-Dichlorobenzene	7.20	Ū	mg/Kg		8270		10/14	G <b>V</b>
1,4-Dichlorobenzene	7.20	Ŭ	mg/Kg		8270		10/14	G <b>V</b>
Benzyl Alcohol	7.20	Ū	mg/Kg		8270		10/14	G <b>V</b>
1,2-Dichlorobenzene	7.20	Ŭ	mg/Kg		8270		10/14	G <b>V</b>
2-Methylphenol	7.20	Ū	mg/Kg		8270		10/14	G <b>V</b>
bis(2-Chloroisopropyl)e	7.20	Ū	mg/Kg		8270		10/14	<b>GV</b>
4-Methylphenol	7.20	U	mg/Kg		8270		10/14	G <b>V</b>
n-Nitroso-di-n-Propylam	7.20	Ū	mg/Kg		8270		10/14	<b>GV</b>
Hexachloroethane	7.20	Ū	mg/Kg		8270		10/14	G <b>V</b>
Nitrobenzene	7.20	U	mg/Kg		8270		10/14	GV
Isophorone	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
2-Nitrophenol	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
2,4-Dimethylphenol	7.20	U	mg/Kg		8270		10/14	G <b>V</b>
Benzoic Acid	7.20	Ü	mg/Kg		8270		10/14	<b>GV</b>
bis(2-Chloroethoxy)Meth	7.20	U	mg/Kg		8270		10/14	G <b>V</b>
2,4-Dichlorophenol	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
1,2,4-Trichlorobenzene	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
Naphthalene	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
4-Chloroaniline	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
Hexachlorobutadiene	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
4-Chloro-3-Methylphenol	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
2-Methylnaphthalene	7.20	U	mg/Kg		8270		10/14	G <b>V</b>
Hexachlorocyclopentadie	7.20	U	mg/Kg		8270		10/14	<b>GV</b>
2,4,6-Trichlorophenol	7.20	U	mg/Kg		8270		10/14	CV
			_					



ENVIRONMENTAL LABORATORY SERVICES

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rize sta	REI	PORT of AN	ALYSIS				
chemlab Ref.# :93.4427-1					7 VICH(	56 <b>33 B STR</b> DRAGE, AK 99	
Client Sample ID :LON SS09 S05						EL: (907) 562-	
Matrix :SOIL						X: (907) 561-	
2,4,5-Trichlorophenol	7.20 U	mg/Kg	EPA 8270		09/10	10/14	<b>GV</b>
2-Chloronaphthalene	7.20 U	mg/Kg	EPA 8270		09/10	10/14	G <b>V</b>
2-Nitroaniline	7.20 ប		EPA 8270		09/10		<b>GV</b>
Dimethylphthalate	7.20 U		EPA 8270		09/10		GV
Acenaphthylene	7.20 U		EPA 8270		09/10		G <b>V</b>
2,6-Dinitrotoluene	7.20 U	3,	EPA 8270		09/10		G <b>V</b>
3-Nitroaniline	7.20 U		EPA 8270		09/10		G <b>V</b>
Acenaphthene	7.20 U	31 -13	EPA 8270		09/10		GV
2,4-Dinitrophenol	7.20 U	37 ***3					
4-Nitrophenol	7.20 U	J, J	EPA 8270		09/10		G <b>V</b>
		37	EPA 8270		09/10		G <b>V</b>
Dibenzofuran	7.20 U		EPA 8270		09/10		GV
2,4-Dinitrotoluene	7.20 U	3, -13	EPA 8270		09/10		<b>GV</b>
Diethylphthalate	7.20 U	<b>3</b> ,5	EPA 8270		09/10		G <b>V</b>
4-Chlorophenyl-Phenylet	7.20 U		EPA 8270		09/10		G <b>V</b>
Fluorene	7.20 U	373	EPA 8270		09/10		GV
4-Nitroaniline	7.20 U	3, 3	EPA 8270			10/14	G <b>V</b>
4,6-Dinitro-2-Methylphe	7.20 U	2 2	EPA 8270			10/14	G <b>V</b>
n-Nitrosodiphenylamine	7 <b>.20</b> U	m <b>g/K</b> g	EPA 8270		09/10	10/14	G <b>V</b>
4-Bromophenyl-Phenyleth	7.20 U	m <b>g/K</b> g	EPA 8270		09/10	10/14	G <b>V</b>
Hexachlorobenzene	7.20 U	m <b>g∕K</b> g	EPA 8270		09/10	10/14	G <b>V</b>
Pentachlorophenol	7.20 U	mg/Kg	EPA 8270		09/10	10/14	GV
P <b>he</b> nanthrene	7.20 U	mg/Kg	EPA 8270		09/10	10/14	G <b>V</b>
Anthracene	7.20 U	mg/Kg	EPA 8270		09/10	10/14	G <b>V</b>
di-n-Butylphthalate	11.9 B	mg/Kg	EPA 8270		09/10	10/14	G <b>V</b>
Fluoranthene	7.20 U		EPA 8270			10/14	G <b>V</b>
Pyrene	7.20 U	mg/Kg	EPA 8270			10/14	G <b>V</b>
Butylbenzylphthalate	7.20 U		EPA 8270			10/14	G <b>V</b>
3,3-Dichlorobenzidine	7.20 U		EPA 8270			10/14	G <b>V</b>
Benzo(a)Anthracene	7.20 U		EPA 8270			10/14	G <b>V</b>
Chrysene	7.20 U		EPA 8270			10/14	<b>GV</b>
bis(2-Ethylhexyl)Phthal	7.20 U		EPA 8270			10/14	G <b>V</b>
di-n-Octylphthalate	7.20 U		EPA 8270			10/14	G <b>V</b>
Benzo(b)Fluoranthene	7.20 U		EPA 8270			10/14	G <b>V</b>
Benzo(k)Fluoranthene	7.20 U		EPA 8270			10/14	G <b>V</b>
Benzo(a)Pyrene	7.20 U		EPA 8270			10/14	G <b>V</b>
<pre>Indeno(1,2,3-cd)Pyrene</pre>	7.20 U		EPA 8270			10/14	G <b>V</b>
Dibenz(a,h)Anthracene	7.20 U		EPA 8270			10/14	Ğ <b>V</b>
Benzo(g,h,i)Perylene	7.20 U		EPA 8270			10/14	G <b>V</b>
beiled (g/ii/1/1 cl/1ciic	7.20		LIA 0270		0 3/ 10	10/14	GW
Sample Preparation			EPA 3050 Digest				
Total Metals Analysis			an soso bigese				
ICP Screen, ICF			EPA	n/a			
Aluminum	2900	mg/Kg	EPA 6010	11/ 4	08/31	09/02	DLG
Antimony	93 U		EPA 6010			09/02	DLG
Arsenic	9 <b>3</b> t	_	EPA 6010			09/02	D <b>LG</b>
Barium	86	mg/Kg	EPA 6010			09/02	DLG
Beryllium	46 U						
Cadmium	4.6 U		EPA 6010 EPA 6010	2		09/02 09/02	DLG DLG
	130000	mg/Kg	EPA 6010 EPA 6010			09/02	DĽG DĽG
Chromium	4.6 t		EPA 6010			09/02	
Cobalt	9.3 t					09/02	DLG
CODATO	).J	J mg/Kg	EPA 6010		00/31	03/04	DLG





**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

Chemlab Ref.# :93.4427-1 Client Sample ID :LON SS09 S05

Matrix :SOIL ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

12		mg/Kg	EPA 6010	08/31 09/06	DLG
15000		mg/Kg	EPA 6010	08/31 09/02	DLG
9.3	U	mg/Kg	EPA 6010	08/31 09/02	DLG
72000		mg/Kg	EPA 6010	08/31 09/02	DLG
200		mg/Kg	EPA 6010	08/31 09/02	DLG
4.6	U	mg/Kg	EPA 6010	08/31 09/02	DLG
7.0		mg/Kg	EPA 6010	0 <b>8/31 09/02</b>	DLG
640		m <b>g/K</b> g	EPA 6010	0 <b>8/</b> 31 09 <b>/06</b>	DLG
93	U	mg/Kg	EPA 6010	0 <b>8/31 09/02</b>	DLG
4.6	U	mg/Kg	EPA 6010	0 <b>8/31 09/02</b>	DLG
310		mg/Kg	EPA 6010	08/31 09 <b>/06</b>	DLG
0.47	U	m <b>g/K</b> g	EPA 7841	0 <b>8/</b> 30 <b>09/01</b>	BMW
26		mg/Kg	EPA 6010	08/31 09/02	DLG
19		mg/Kg	EPA 6010	08/31 09 <b>/02</b>	DLG
	15000 9.3 72000 200 4.6 7.0 640 93 4.6 310 0.47 26	15000 9.3 U 72000 200 4.6 U 7.0 640 93 U 4.6 U 310 0.47 U 26	15000 mg/Kg 9.3 U mg/Kg 72000 mg/Kg 200 mg/Kg 4.6 U mg/Kg 7.0 mg/Kg 640 mg/Kg 93 U mg/Kg 4.6 U mg/Kg 310 mg/Kg 0.47 U mg/Kg	15000 mg/Kg EPA 6010 9.3 U mg/Kg EPA 6010 72000 mg/Kg EPA 6010 200 mg/Kg EPA 6010 4.6 U mg/Kg EPA 6010 7.0 mg/Kg EPA 6010 640 mg/Kg EPA 6010 93 U mg/Kg EPA 6010 4.6 U mg/Kg EPA 6010 310 mg/Kg EPA 6010 0.47 U mg/Kg EPA 7841 26 mg/Kg EPA 6010	15000 mg/Kg EPA 6010 08/31 09/02 9.3 U mg/Kg EPA 6010 08/31 09/02 72000 mg/Kg EPA 6010 08/31 09/02 200 mg/Kg EPA 6010 08/31 09/02 4.6 U mg/Kg EPA 6010 08/31 09/02 7.0 mg/Kg EPA 6010 08/31 09/02 640 mg/Kg EPA 6010 08/31 09/02 640 mg/Kg EPA 6010 08/31 09/06 93 U mg/Kg EPA 6010 08/31 09/02 4.6 U mg/Kg EPA 6010 08/31 09/02 310 mg/Kg EPA 6010 08/31 09/02 310 mg/Kg EPA 6010 08/31 09/06 0.47 U mg/Kg EPA 7841 08/30 09/01 26 mg/Kg EPA 6010 08/31 09/02

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than



**SES** Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

emlab Ref.# :93.4626-7 Client Sample ID :LON-SS09-2S04

Matrix :SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

hrs

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS :DEW LINE

Project# PWSID

:LONELY :UA

WORK Order

:70635 Report Completed :10/07/93

Collected

:09/05/93 @ 13:10

Received :09/07/93 @ 11:00 hrs

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G.

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		QC		<u>Can</u>		nmen	7	
Parameter	Results	Oual	Units	Method	Allowable Limits	Ext. Date	Anal	T _ 1 L
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Volatile Organics				EPA 8260				
Benzene	0.025	U	mg/Kg	EPA 8260 (J)	-A.1	09/08	09/30	KWM
Bromobenzene	0.025	U	mg/Kg	EPA 8260 ,	,,,,,		09/30	KWM
Bromochloromethane	0.025	U	mg/Kg	EPA 8260			09/30	KWM
Bromodichloromethane	0.025	U	mg/Kg	EPA 8260			09/30	KWM
Bromoform	0.025	U	mg/Kg	EPA 8260			09/30	KWM
Bromomethane	0.025	U	mg/Kg	EPA 8260			09/30	KWM
n-Butylbenzene	0.025	U	mg/Kg	EPA 8260			09/30	KWM
sec-Butylbenzene	0.025	U	mg/Kg	EPA 8260			09/30	KWM
tert-Butylbenzne	0.025	U	mg/Kg	EPA 8260			09/30	KWM
Carbon Tetrachloride	0.025		mg/Kg	EPA 8260			09/30	KWM
Chlorobenzene	0.025	U	mg/Kg	EPA 8260			09/30	KWM
Chloroethane	0.025	U	mg/Kg	EPA 8260			09/30	KWM
Chloroform	0.025	U	mg/Kg	EPA 8260			09/30	KWH
Chloromethane	0.025	U	mg/Kg	EPA 8260			09/30	KWM
2-Chlorotoluene	0.025	ប់	mg/Kg	EPA 8260			09/30	KWM
4-Chlorotoluene	0.025	U	mg/Kg	EPA 8260			09/30	KWM
Dibromochloromethane	0.025	U	mg/Kg	EPA 8260		09/08		KWM
12Dibromo3Chloropropane	0.025	U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dibromoethane	0.025	U	mg/Kg	EPA 8260		09/08		KWM
Dibromomethane	0.025	U	mg/Kg	EPA 8260		09/08		KWM
1,2-Dichlorobenzene	0.025	U	mg/Kg	EPA 8260		09/08		KWM
1,3-Dichlorobenzene	0.025	U	mg/Kg	EPA 8260		09/08		KWM
1.4-Dichlorobenzene	0.025	U	mg/Kg	EPA 8260 \		09/08		KWM
Dichlorodifluoromethane	0.025	U	mg/Kg	EPA 8260		09/08		KWM
1,1-Dichloroethane	0.025	U	mg/Kg	EPA 8260		09/08		KWM
1,2-Dichloroethane	0.025		mg/Kg	EPA 8260		09/08		KWM
1,1-Dichloroethene	0.025		mg/Kg	EPA 8260		09/08		KWM
cis-1,2-Dichloroethene	0.025	U	mg/Kg	EPA 8260		09/08		KWM
trans1,2-Dichloroethene	0.025	U	mg/Kg	EPA 8260 (		09/08		KWM
1,2-Dichloropropane	0.025	U	mg/Kg	EPA 8260		09/08		KWM
1,3-Dichloropropane	0.025	U	mg/Kg	EPA 8260		09/08		KWM
2,2-Dichloropropane	0.025		mg/Kg	EPA 8260		09/08		KWM
1,1-Dichloropropene	0.025		mg/Kg	EPA 8260		09/08		KWM
Ethylbenzene	0.025	U	mg/Kg	EPA 8260	:	09/08		KWM
Hexachlorobutadiene	0.025	U	mg/Kg	EPA 8260		09/08		KWM
Isopropylbenzene	0.025		mg/Kg	EPA 8260		09/08		KWM
p-Isopropyltoluene	0.025		mg/Kg	EPA 8260		09/08		KWM
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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4626-7 Client Sample ID :LON-SS09-2S04

:SOIL

5633 B STR ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

See Sample Remarks Above

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above

U = Undetected, Reported value is the practical quantification limit.



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

5633 B STREET ANCHORAGE. AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

nemlab Ref.# Client Sample ID :LON-SS09-2S06

:93.4626-8

Matrix

PWSID

:SOIL

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name Project#

:DEW LINE : LONELY

:RAY MORRIS

:UA

WORK Order :70635

Report Completed :10/07/93

Collected :09/05/93 @ 13:20 hrs. :09/07/93 @ 11:00 hrs. Received

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Bromobenzene	0.022	IJ	mg/Kg	EPA 8260			09/30	KWM
Bromochloromethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Bromodichloromethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromoform	0.022	U	m <b>g/Kg</b>	EPA 8260		09/08	09/30	KWM
Bromomethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
n-Butylbenzene	0.022	U	mg/Kg	<b>EPA</b> 8260		09/08	09/30	KWM
sec-Butylbenzene	0.022	IJ	mg/Kg	EPA 8260		09/08	09/30	KWM
tert-Butylbenzne	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Carbon Tetrachloride	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Chlorobenzene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Chloroethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Chloroform	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Chloromethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
2-Chlorotoluene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
4-Chlorotoluene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Dibromochloromethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
12Dibromo3Chloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dibromoethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Dibromomethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,3-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,4-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Dichlorodifluoromethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,1-Dichloroethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dichloroethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,1-Dichloroethene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
cis-1,2-Dichloroethene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
trans1,2-Dichloroethene	0.022	U	mg/Kg	ETPA 8260			09/30	KWM
1,2-Dichloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,3-Dichloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
2,2-Dichloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,1-Dichloropropene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Ethylbenzene	0.022	U	mg/Kg	EPA 8260	•		09/30	KWM
Hexachlorobutadiene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Isopropylbenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
 p-Isopropyltoluene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
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Chemlab Ref.#

# COMMERCIAL TESTING & ENGINEERING CO.

**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

Client Sample ID :LON-SS09-2S06

:93.4626-8

Matrix :SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Matrix :SOIL					FAX. (907) 561-	5301
Methylene Chloride	0.022	U	mg/Kg	EPA 8260	09/08 09/30	KWM
Napthalene	0.022	U	mg/Kg	EPA 8260	09/08 09/30	KWM
n-Propylbenzene	0.022	U	mg/Kg	EPA 8260	09/08 09/30	KWM
Styrene	0.022	U	mg/Kg	EPA 8260	0 <b>9/</b> 08 09/3 <b>0</b>	KWM
1112-Tetrachloroethane	0.022	U	mg/Kg	EPA 8260	0 <b>9/</b> 08 09/3 <b>0</b>	KWM
1122-Tetrachloroethane	0.022	U	mg/Kg	EPA 8260	09/08 09/3 <b>0</b>	KWM
Tetrachloroethene	0.022	U	mg/Kg	EPA 8260	09/08 09/3 <b>0</b>	KWM
Toluene	0.022	U	mg/Kg	EPA 8260	0 <b>9/</b> 08 09/3 <b>0</b>	KWM
1,2,3-Trichlorobenzene	0.022	U	mg/Kg	EPA 8260	09/08 09/30	KWM
1,2,4-Trichlorobenzene	0.022	U	mg/Kg	EPA 8260	0 <b>9/</b> 08 09/3 <b>0</b>	KWM
1,1,1-Trichloroethane	0.022	U	mg/Kg	EPA 8260	0 <b>9/</b> 08 09/3 <b>0</b>	KWM
1,1,2-Trichloroethane	0.022	U	mg/Kg	EPA 8260	0 <b>9/</b> 08 09/3 <b>0</b>	KWM
Trichloroethene	0.022	U	m <b>g/K</b> g	EPA 8260	0 <b>9/</b> 08 09 <b>/30</b>	KWM
Trichlorofluoromethane	0.022	U	m <b>g/K</b> g	EPA 8260	09/08 09/3 <b>0</b>	KWM
1,2,3-Trichloropropane	0.022	U	mg/Kg	EPA 8260	0 <b>9/08 09/30</b>	KWM
1,2,4-Trimethylbenzene	0.022	U	mg/Kg	EPA 8260	09/08 09/3 <b>0</b>	KWM
1,3,5-Trimethylbenzene	0.022	U	mg/Kg	EPA 8260	09/08 09/ <b>30</b>	KWM
Vinyl Chloride	0.022	U	mg/Kg	EPA 8260	0 <b>9/</b> 08 09/3 <b>0</b>	KWM
p+m-Xylene	0.022	U	mg/Kg	EPA 8260	09/08 09/30	KWM
o-Xylene	0.022	U	m <b>g/Kg</b>	EPA 8260	09/08 09/30	KWM

* See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

nemlab Ref.#

:93.4626-9

Client Sample ID :LON-SS09-2S06 SPIKE

Matrix

:SOIL

ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

5633 B STREET

Client Name Ordered By

:ICF KAISER ENGINEERING

:RAY MORRIS

Project Name Project#

PWSID

:DEW LINE :LONELY :UA

WORK Order Report Completed :10/07/93 Collected

:70635

:09/05/93 @ 13:20 hrs. :09/07/93 @ 11:00 hrs.

Received

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G. FOR SPIKE AND SPIKE DUP RECOVERIES, SEE QC SUMMARY.

			QC			Allowable	Ext.	Anal	
	Parameter	Results	Qual	Units	Method	Limits	Date	Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.221		mg/Kg	EPA 8260		09/08	09/30	KWM
	Bromobenzene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	Bromochloromethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	Bromodichloromethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	Bromoform	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	Bromomethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	n-Butylbenzene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	sec-Butylbenzene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	tert-Butylbenzne	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
4	Carbon Tetrachloride	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	Chlorobenzene	0.215		mg/Kg	EPA 8260		09/08	09/30	KWM
	Chloroethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	Chloroform	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	Chloromethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	2-Chlorotoluene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	4-Chlorotoluene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	Dibromochloromethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
	12Dibromo3Chloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,2-Dibromoethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	Dibromomethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,2-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,3-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,4-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	Dichlorodifluoromethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,1-Dichloroethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,2-Dichloroethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,1-Dichloroethene	0.043		mg/Kg	EPA 8260			09/30	KWM
	cis-1,2-Dichloroethene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	trans1,2-Dichloroethene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,2-Dichloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,3-Dichloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	2,2-Dichloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	1,1-Dichloropropene	0.022		mg/Kg	EPA 8260	•		09/30	KWM
	Ethylbenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
	Hexachlorobutadiene	0.022		mg/Kg	EPA 8260			09/30	KWM
	Isopropylbenzene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET Chemlab Ref.# :93.4626-9 ANCHORAGE, AK 99518 Client Sample ID :LON-SS09-2S06 SPIKE TEL: (907) 562-2343 FAX: (907) 561-5301 :SOIL Matrix 0.022 EPA 8260 09/08 09/30 KWM Ħ mg/Kg p-Isopropyltoluene EPA 8260 09/08 09/30 KWM Methylene Chloride 0.022 U ma/Ka 09/08 09/30 KWM EPA 8260 Napthalene 0.022 U mg/Kg 09/08 09/30 KWM 0.022 U ma/Ka EPA 8260 n-Propylbenzene 09/08 09/30 KWM 0.022 U mg/Kg EPA 8260 Styrene 09/08 09/30 KWM EPA 8260 1112-Tetrachloroethane 0.022 IJ mg/Kg 09/08 09/30 KWM 0.022 EPA 8260 1122-Tetrachloroethane H mg/Kg 09/08 09/30 KWM EPA 8260 0.022 U Tetrachloroethene mg/Kg 09/08 09/30 KWM EPA 8260 0.224 Toluene mg/Kg 09/08 09/30 KWM EPA 8260 1,2,3-Trichlorobenzene 0.022 U mq/Kq 09/08 09/30 KWM EPA 8260 1,2,4-Trichlorobenzene 0.022 U mq/Kq 09/08 09/30 KWM EPA 8260 0.022 H mq/Kq 1,1,1-Trichloroethane 09/08 09/30 KWM EPA 8260 0.022 U mg/Kg 1,1,2-Trichloroethane EPA 8260 09/08 09/30 KWM 0.199 mg/Kg Trichloroethene 09/08 09/30 KWM Trichlorofluoromethane EPA 8260 0.022 Ü mq/Kq 09/08 09/30 KWM 0.022 U mq/Kg EPA 8260 1,2,3-Trichloropropane 09/08 09/30 EPA 8260 KWM 0.022 U mg/Kg 1,2,4-Trimethylbenzene 09/08 09/30 KWM 0.022 EPA 8260 11 mg/Kg 1,3,5-Trimethylbenzene 09/08 09/30 KWM 0.022 U mg/Kg EPA 8260 Vinyl Chloride 09/08 09/30 KWM EPA 8260 0.022 U mg/Kg p+m-Xylene 09/08 09/30 KWM o-Xylene 0.022 U mg/Kg EPA 8260

See Special Instructions Above

See Sample Remarks Above

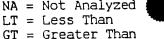
U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than







**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

emlab Ref.# :93.4626-10

Client Sample ID :LON-SS09-2S06 SPIKE DUPLICATE

Matrix :SOIL

> :ICF KAISER ENGINEERING WORK Order :70635

Client Name :RAY MORRIS Report Completed :10/07/93 Ordered By

Project Name :DEW LINE Collected **:09/**05/93 @ 13:20 hrs. :09/07/93 @ 11:00 hrs. Project# :LONELY Received

PWSID :UA Technical Director: STEPHEN, C. EDE

Released By : Homestesse

5633 B STREET

TEL: (907) 562-2343 FAX: (907) 561-5301

ANCHORAGE, AK 99518

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G. FOR SPIKE AND SPIKE DUP

RECOVERIES, SEE QC SUMMARY.

Parameter	Results	QC	Unita	Mathad	Allowable Limits	Ext.	Anal	T-:-
ralameter	resurts			Method	LIMICS	Date 	Date	Init 
Volatile Organics				EPA 8260				
Benzene	0.219		mg/Kg	EPA 8260		09/08	09/30	KWM
Bromobenzene	0.022	U	m <b>g/K</b> g	EPA 8260		09/08	09/30	KWM
Bromochloromethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromodichloromethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromoform	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromomethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
n-Butylbenzene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
sec-Butylbenzene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Sert-Butylbenzne	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Carbon Tetrachloride	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Chlorobenzene	0.223		mg/Kg	EPA 8260			09/30	KWM
Chloroethane	0.022	U	mg/Kg	EPA 8260		09/08		KWM
Chloroform	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Chloromethane	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
2-Chlorotoluene	0.022	Ü	mg/Kg	EPA 8260			09/30	KWM
4-Chlorotoluene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM
Dibromochloromethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
12Dibromo3Chloropropane	0.022	U	mg/Kg	EPA 8260		09/08		KWM
1,2-Dibromoethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Dibromomethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,3-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,4-Dichlorobenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Dichlorodifluoromethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,1-Dichloroethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dichloroethane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,1-Dichloroethene	0.043		mg/Kg	EPA 8260			09/30	KWM
cis-1,2-Dichloroethene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
trans1,2-Dichloroethene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dichloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
1,3-Dichloropropane	0.022	U	mg/Kg	EPA 8260			09/30	KWM
2,2-Dichloropropane	0.022	U	mg/Kg	EPA 8260	. •		09/30	KWM
1,1-Dichloropropene	0.022		mg/Kg	EPA 8260	•		09/30	KWM
Ethylbenzene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Hexachlorobutadiene	0.022	U	mg/Kg	EPA 8260			09/30	KWM
Isopropylbenzene	0.022	U	mg/Kg	EPA 8260		09/08	09/30	KWM



**ENVIRONMENTAL LABORATORY SERVICES** 

No. at 1995	F	REPO	RT of ANA	LYSIS			5633 B STF	
Chemlab Ref.# :93.4626-10 Client Sample ID :LON-SS09-2S Matrix :SOIL	06 SPIK	E DU	PLICATE			TE	DRAGE, AK 9 EL: (907) 562- X: (907) 561-	9518 2343
Matrix :SOIL  p-Isopropyltoluene Methylene Chloride Napthalene n-Propylbenzene Styrene 1112-Tetrachloroethane 1122-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022 0.022	טטטט טטטט טטטטטטטטטטטטטטטטטטטטטטטטטטטט	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA EPA EPA EPA EPA EPA EPA EPA EPA EPA	8260 8260 8260 8260 8260 8260 8260 8260	09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08 09/08	x: (907) 561- 09/30 09/30 09/30 09/30 09/30 09/30 09/30 09/30 09/30 09/30 09/30 09/30 09/30 09/30 09/30	KWM KWM KWM KWM KWM KWM KWM KWM KWM KWM
Vinyl Chloride p+m-Xylene o-Xylene	0.022 0.022 0.022	U U	mg/Kg mg/Kg mg/Kg	EPA	8260 8260 8260	09/08	09/30 09/30 09/30	KWM KWM KWM

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



PWSID

# COMMERCIAL TESTING & ENGINEERING CO.

**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Chemlab Ref.# :93.4626-11 Client Sample ID :LON-SS09-2S07

:UA

Matrix :SOIL

Client Name :ICF KAISER ENGINEERING

Ordered By :RAY MORRIS Project Name :DEW LINE Project# :LONELY

WORK Order :70635

Report Completed :10/07/93

@ 13:30 hrs. Collected :09/05/93 Received :09/07/93 @ 11:00 hrs.

Allowable Dut

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G.

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D. harr	QC			Allowable	Ext.	Anal	- · ·
Parameter	Results Qual	Units	Method	Limits	Date	Da <b>te</b>	Init
Volatile Organics			EPA 8260				
Benzene	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromobenzene	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromochloromethane	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromodichloromethane	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromoform	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
Bromomethane	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
n-Butylbenzene	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
sec-Butylbenzene	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
tert-Butylbenzne	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
arbon Tetrachloride	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM
nlorobenzene	0.400 U	m <b>g/K</b> g	EPA 8260		09/08	09/30	KWM
Chloroethane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
Chloroform	0.400 U	m <b>g/K</b> g	EPA 8260			09/30	KWM
Chloromethane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
2-Chlorotoluene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
4-Chlorotoluene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
Dibromochloromethane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
12Dibromo3Chloropropane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dibromoethane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
Dibromomethane	0 <b>.400</b> U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dichlorobenzene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
1,3-Dichlorobenzene	0.400 U	m <b>g/K</b> g	EPA 8260			09/30	KWM
1,4-Dichlorobenzene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
Dichlorodifluoromethane	0.400 U	m <b>g/K</b> g	EPA 8260			09/30	KWM
1,1-Dichloroethane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dichloroethane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
1,1-Dichloroethene	0. <b>400</b> U	m <b>g/K</b> g	EPA 8260			09/30	KWM
cis-1,2-Dichloroethene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
trans1,2-Dichloroethene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
1,2-Dichloropropane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
1,3-Dichloropropane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
2,2-Dichloropropane	0.400 U	mg/Kg	EPA 8260			09/30	KWM
1,1-Dichloropropene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
Ethylbenzene	0.400 U	mg/Kg	EPA 8260	•		09/30	KWM
Hexachlorobutadiene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
Isopropylbenzene	0.400 U	mg/Kg	EPA 8260			09/30	KWM
p-Isopropyltoluene	0.400 U	mg/Kg	EPA 8260		09/08	09/30	KWM



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS 5633 B STREET Chemlab Ref.# :93.4626-11 ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAY: (907) 561-5301 Client Sample ID :LON-SS09-2S07

			FAX: (907) 561-	-5301
0.400 U	mg/Kg	EPA 8260	09/08 09/30	KWM
0.400 U	mg/Kg	EPA 8260	0 <b>9/08 09/30</b>	KWM
0.400 U	mg/Kg	EPA 8260	0 <b>9/</b> 08 09/3 <b>0</b>	KWM
0.400 U	m <b>g/K</b> g	EPA 8260	0 <b>9/08 09/30</b>	KWM
0.400 U	mg/Kg	EPA 8260	0 <b>9/08 09/30</b>	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/3 <b>0</b>	KWM
0.400 U	m <b>g/K</b> g	EPA 8260	0 <b>9/08 09/30</b>	KWM
0.400 U	mg/Kg	EPA 8260	0 <b>9/08</b> 0 <b>9/30</b>	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/ <b>30</b>	KWM
0.400 U	m <b>g/K</b> g	EPA 8260	0 <b>9/0</b> 8 09/ <b>30</b>	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/30	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/ <b>30</b>	KWM
0.400 U	m <b>g/Kg</b>	EPA 8260	0 <b>9/08 09/30</b>	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/30	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09 <b>/30</b>	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/3 <b>0</b>	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/ <b>30</b>	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/ <b>30</b>	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/30	KWM
0.400 U	mg/Kg	EPA 8260	09/08 09/ <b>30</b>	KWM
	0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U 0.400 U	0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg 0.400 U mg/Kg	0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260 0.400 U mg/Kg EPA 8260	0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30 0.400 U mg/Kg EPA 8260 09/08 09/30

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than GT = Greater Than





Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4427-2 Client Sample ID :LON SS09 SD01

Matrix

:SOIL

Ordered By Project Name : DEW LINE Project#

Client Name

:RAY MORRIS

PWSID :UA

:ICF KAISER ENGINEERING

: LONELY

WORK Order

Report Completed :10/21/93

:08/27/93 @ 09:30 hrs. Collected :08/29/93 @ 12:45 hrs. Received

5633 B STREET

FAX: (907) 561-5301

ANCHORAGE, AK 99518 TEL: (907) 562-2343

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, S.W., ROBERT T., AND JERRY M. B =

THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE ASSOCIATED BLANK

AS WELL AS IN THE SAMPLE.

Parameter	Results Q	QC ual	Units	Method	Allowable Limits	Ext. Date	Anal Date	In <b>it</b>
Volatile Organics				EPA 8260				
Benzene		U	mg/Kg	EPA 8260		08/30		KWM
Bromobenzene		U	mg/Kg	EPA 8260		08/30		KWM
Bromochloromethane		U	mg/Kg	EPA 8260		08/30		KWM
Bromodichloromethane		U	mg/Kg	EPA 8260		08/30		KWM
Bromoform		U	mg/Kg	EPA 8260		08/30		KWM
Bromomethane	*	U	mg/Kg	EPA 8260		08/30		KWM
n-Butylbenzene		U	mg/Kg	EPA 8260		08/30		KWM
ec-Butylbenzene		U	mg/Kg	EPA 8260		08/30		KWM
tert-Butylbenzne		U	mg/Kg	EPA 8260		08/30		KWM
Carbon Tetrachloride		U	mg/Kg	EPA 8260		08/30		KWM
Chlorobenzene		U	mg/Kg	EPA 8260		08/30		KWM
Chloroethane		U	mg/Kg	EPA 8260		08/30		KWM
Chloroform		U	mg/Kg	EPA 8260			09/13	KWM
Chloromethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
2-Chlorotoluene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
4-Chlorotoluene		U	mg/Kg	EPA 8260			09/13	KWM
Dibromochloromethane	0.020	U	mg/Kg	EPA 8260			09/13	KWM
12Dibromo3Chloropropane	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,2-Dibromoethane	0.020	U	mg/Kg	EPA 8260			09/13	KWM
Dibromomethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,2-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,3-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,4 Dichlorobenzene		U	mg/Kg	EPA 8260			09/13	KWM
Dichlorodifluoromethane		U	mg/Kg	EPA 8260			09/13	KWM
1,1-Dichloroethane		U	mg/Kg	EPA 8260			09/13	KWM
1,2-Dichloroethane		U	mg/Kg	EPA 8260			09/13	KWM
1,1-Dichloroethene		U	mg/Kg	EPA 8260			09/13	KWM
cis-1,2-Dichloroethene		U	mg/Kg	EPA 8260			09/13	KWM
trans1,2-Dichloroethene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,2-Dichloropropane	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,3-Dichloropropane	0.020	U	mg/Kg	EPA 8260	•		09/13	KWM
2,2-Dichloropropane	0.020	U	mg/Kg	EPA 8260	•		09/13	KWM
1,1-Dichloropropene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
Ethylbenzene	0.020	U	mg/Kg	EPA 8260			09/13	KWM
Hexachlorobutadiene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4427-2 Client Sample ID :LON SS09 SD01

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

atrix :SOIL	501			FAX:	(907) 561-5	5301
Isopropylbenzene	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM
p-Isopropyltoluene	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM
Methylene Chloride	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM
Napthalene	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM
n-Propylbenzene	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM
Styrene	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM
1112-Tetrachloroethane	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM
1122-Tetrachloroethane	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM
Tetrachloroethene	0.020 U	mg/Kg	EPA 8260	08/30 0 08/30 0		KWM KWM
Toluene	0.020 U	mg/Kg	EPA 8260	•		
1,2,3-Trichlorobenzene	0.020 U	mg/Kg	EPA 8260	08/30 0		KWM KWM
1,2,4-Trichlorobenzene	0.020 U	mg/Kg	EPA 8260	08/30 0 08/30 0		KWM
1,1,1-Trichloroethane	0.020 U	mg/Kg	EPA 8260	08/30 0		KMW
1,1,2-Trichloroethane	0.020 U	mg/Kg	EPA 8260	08/30 (		KMW
Trichloroethene	0.020 U	mg/Kg	EPA 8260	08/30 (		KWM
Trichlorofluoromethane	0.020 U	mg/Kg	EPA 8260	08/30 (		KWM
1,2,3-Trichloropropane	0.020 U	mg/Kg	EPA 8260	08/30 (		KWM
1,2,4-Trimethylbenzene	0.020 U	mg/Kg	EPA 8260	08/30 (		KWM
1,3,5-Trimethylbenzene	0.020 U	mg/Kg	EPA 8260	08/30 (		KWM
Vinyl Chloride	0.020 U	mg/Kg	EPA 8260 EPA 8260	08/30 (		KWM
p+m-Xylene	0.021	mg/Kg	EPA 8260	08/30 (		KWM
o-Xylene	0.024	mg/Kg	EFA 0200	00/30	J J / 13	
Semivolatile Organics			EPA 8270	00.440		
Phenol	3. <b>30</b> U	mg/Kg	EPA 8270	09/10		ডে
bis(2-Chloroethyl)ether	3. <b>30</b> U	mg/Kg	EPA 8270	09/10		G <b>V</b>
2-Chlorophenol	3. <b>30</b> U	mg/Kg	EPA 8270	09/10		G <b>V</b>
1,3-Dichlorobenzene	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
1,4-Dichlorobenzene	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
Benzyl Alcohol	3 <b>.30</b> U	mg/Kg	EPA 8270	09/10		G <b>V</b>
1,2-Dichlorobenzene	3. <b>30</b> U	mg/Kg	EPA 8270	09/10		G <b>V</b>
2-Methylphenol	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b> G <b>V</b>
bis(2-Chloroisopropyl)e	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
4-Methylphenol	3.30 U	mg/Kg	EPA 8270	09/10 09/10		G <b>V</b>
n-Nitroso-di-n-Propylam	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
Hexachloroethane	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
Nitrobenzene	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
Isophorone	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
2-Nitrophenol	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
2,4-Dimethylphenol	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
Benzoic Acid	3.30 U	mg/Kg	EPA 8270 EPA 8270	09/10		G <b>V</b>
bis(2-Chloroethoxy)Meth	3.30 U	mg/Kg	EPA 8270	09/10		Ğ <b>V</b>
2,4-Dichlorophenol	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
1,2,4-Trichlorobenzene	3.30 U 3.30 U	mg/Kg mg/Kg	EPA 8270	09/10		G₩
Naphthalene	3.30 U 3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
4-Chloroaniline	3.30 U	mg/Kg	EPA 8270	09/10		G <b>V</b>
Hexachlorobutadiene	3.30 U		EPA 8270	09/10		G <b>V</b>
4-Chloro-3-Methylphenol	3.30 U	J	EPA 8270	09/10		G <b>V</b>
2-Methylnaphthalene Hexachlorocyclopentadie	3.30 U		EPA 8270	09/10	10/14	GΥ
2,4,6-Trichlorophenol	3.30 U		EPA 8270	09/10		GV
2, 4, 0-11 10111010pite1101	3.30	<b>3/ *</b> ' ' '				





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# 5633 B STREET :93.4427-2 ANCHORAGE, AK 99518 Client Sample ID :LON SS09 SD01 TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 561-5301 2,4,5-Trichlorophenol 3.30 EPA 8270 ma/Ka 09/10 10/14 **GV** 2-Chloronaphthalene 3.30 EPA 8270 U ma/Ka 09/10 10/14 **GV** 2-Nitroaniline 3.30 U EPA 8270 09/10 10/14 mg/Kg **GV** Dimethylphthalate 3.30 U EPA 8270 09/10 10/14 mq/Kq GV Acenaphthylene 3.30 U EPA 8270 09/10 10/14 mq/Kq GV 2.6-Dinitrotoluene 3.30 EPA 8270 U ma/Ka 09/10 10/14 GV 3-Nitroaniline U EPA 8270 3.30 mq/Kq 09/10 10/14 GV Acenaphthene 3.30 U EPA 8270 09/10 10/14 mg/Kg GV 2,4-Dinitrophenol 3.30 U EPA 8270 09/10 10/14 mg/Kg GV 4-Nitrophenol 3.30 U EPA 8270 09/10 10/14 mg/Kg GV Dibenzofuran 3.30 U EPA 8270 ma/Ka 09/10 10/14 GV 2,4-Dinitrotoluene 3.30 U ma/Ka EPA 8270 09/10 10/14 GV Diethylphthalate 09/10 10/14 3.30 U mq/Kq EPA 8270 **GV** 4-Chlorophenyl-Phenylet 3.30 U EPA 8270 09/10 10/14 mg/Kg **GV** Fluorene 3.30 EPA 8270 11 09/10 10/14 mg/Kg GV 4-Nitroaniline IJ EPA 8270 3.30 09/10 10/14 mg/Kg GV 4,6-Dinitro-2-Methylphe EPA 8270 3.30 [] mq/Kq 09/10 10/14 GV n-Nitrosodiphenylamine 3.30 U EPA 8270 09/10 10/14 mg/Kg **GV** 4-Bromophenyl-Phenyleth 3.30 EPA 8270 ma/Ka 09/10 10/14 GV Hexachlorobenzene EPA 8270 GV 3.30 09/10 10/14 mq/Kg Pentachlorophenol 3.30 EPA 8270 09/10 10/14 H GV mg/Kg Phenanthrene 3.30 U EPA 8270 09/10 10/14 **GV** mg/Kg nthracene 3.30 11 mg/Kg EPA 8270 09/10 10/14 GV i-n-Butylphthalate GV 15.3 EPA 8270 09/10 10/14 B mg/Kg Fluoranthene GV 3.30 EPA 8270 09/10 10/14 U mq/Kq Pyrene 3.30 EPA 8270 09/10 10/14 **GV** U mq/Kq Butylbenzylphthalate EPA 8270 09/10 10/14 3.30 GV U mg/Kg 3,3-Dichlorobenzidine 09/10 10/14 EPA 8270 GV 3.30 U mg/Kg Benzo(a)Anthracene 3.30 EPA 8270 09/10 10/14 **GV** U ma/Ka EPA 8270 Chrysene 3.30 U ma/Ka 09/10 10/14 **GV** bis(2-Ethylhexyl)Phthal EPA 8270 3.30 U ma/Ka 09/10 10/14 **GV** EPA 8270 di-n-Octylphthalate 3.30 U 09/10 10/14 **GV** ma/Ka EPA 8270 Benzo(b)Fluoranthene U 09/10 10/14 GV 3.30 mg/Kg Benzo(k)Fluoranthene EPA 8270 09/10 10/14 **GV** 3.30 U mg/Kg Benzo(a)Pyrene EPA 8270 09/10 10/14 **GV** 3.30 U mg/Kg Indeno(1,2,3-cd)Pyrene 3.30 U mg/Kg EPA 8270 09/10 10/14 **GV** Dibenz(a,h)Anthracene EPA 8270 09/10 10/14 GV 3.30 U mg/Kg Benzo(g,h,i)Perylene EPA 8270 09/10 10/14 GV 3.30 mg/Kg Sample Preparation EPA 3050 Digest Total Metals Analysis ICP Screen, ICF **EPA** n/a 08/31 09/02 Aluminum 2100 mq/Kq EPA 6010 DLG 08/31 09/02 Antimony 49 EPA 6010 DLG U mg/Kg Arsenic 49 EPA 6010 08/31 09/02 DLG H mg/Kg Barium 50 EPA 6010 08/31 09/02 DLG mg/Kg Beryllium 25 EPA 6010 08/31 09/02 DLG IJ mq/Kq 08/31 09/02 Cadmium 2.5 EPA 6010 DLG 11 ma/Ka Calcium 39000 EPA 6010 08/31 09/02 DLG mg/Kg Chromium 2.5 U mq/Kq EPA 6010 08/31 09/02 DLG Cobalt 4.9 U mg/Kg EPA 6010 08/31 09/02 DLG





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET Chemlab Ref.# :93.4427-2 ANCHORAGE, AK 99518 TEL: (907) 562-2343 Client Sample ID :LON SS09 SD01 FAX: (907) 561-5301 :SOIL Matrix 08/31 09/06 DLG EPA 6010 Copper 5.4 mg/Kg 08/31 09/02 DLG EPA 6010 9500 mg/Kg Iron EPA 6010 08/31 09/02 mg/Kg 4.9 Ü Lead 08/31 09/02 DLG EPA 6010 22000 mg/Kg Magnesium 08/31 09/02 DLG EPA 6010 91 mg/Kg Manganese 08/31 09/02 DLG 2.5 EPA 6010 mg/Kg Molybdenum 08/31 09/02 DLG EPA 6010 4.4 mq/Kq Nickel 08/31 09/06 DLG EPA 6010 330 mq/Kq Potassium 08/31 09/02 DLG EFA 6010 49 mg/Kg IJ Selenium 08/31 09/02 DLG EPA 6010 2.5 U mg/Kg Silver DLG 08/31 09/06 EPA 6010 220 mg/Kg Sodium EPA 7841 08/30 09/01 KAW 0.25 mg/Kg Thallium 08/31 09/02 DLG EPA 6010 ma/Ka 14 Vanadium 08/31 09/02 DLG EPA 6010 mq/Kq 14 Zinc

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

Tourses

FAX: (907) 561-5301

Matrix

PWSID

:93.4427-3 Client Sample ID :LON SS09 SD03

Chemlab Ref.#

:SOIL

Client Name

:ICF KAISER ENGINEERING :RAY MORRIS

Ordered By Project Name Project#

:LONELY

:DEW LINE

:UA

:70215 WORK Order

Report Completed :10/21/93

:08/27/93 Collected @ 09:30 hrs :08/29/93 @ 12:45 hrs Received

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, S.W., ROBERT T., AND JERRY M. B =

THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE ASSOCIATED BLANK

AS WELL AS	IN THE SAM	IPLE.		<b>~</b>	/0/			
				. Qu	alefres //	umuls	15	
		QC			Allowable	Ext.	Anal	
Parameter	Results		Units	Method	Limits	Date	Date	Init
Volatile Organics								
Benzene	0 020	,,	/1/-	EPA 8260	-\	00/00	00/40	
Bromobenzene	0.020 0.020	U U	mg/Kg	EPA 8260 (J	J-4.1	08/30		KWM
Bromochloromethane	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
Bromodichloromethane	0.020	U	mg/Kg	EPA 8260 \		08/30		KWM
Bromoform	0.020	U	mg/Kg	EPA 8260 \		08/30		KWM
Bromomethane	0.020	บ	mg/Kg	EPA 8260		08/30		KWM
n-Butylbenzene	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
sec-Butylbenzene	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
tert-Butylbenzne	0.020	บ	mg/Kg	EPA 8260		08/30		KWM
Carbon Tetrachloride	0.020	Ŭ	mg/Kg mg/Kg	EPA 8260 EPA 8260		08/30		KWM
Chlorobenzene	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
Chloroethane	0.020	บ	mg/Kg	EPA 8260		08/30		KWM
Chloroform	0.020	บ	mg/Kg	EPA 8260		08/30		KWM
Chloromethane	0.020	Ü	mg/Kg	EPA 8260	, D. I	08/30		KWM
2-Chlorotoluene	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
4-Chlorotoluene	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
Dibromochloromethane	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
12Dibromo3Chloropropane	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
1,2-Dibromoethane	0.020	IJ	mg/Kg	EPA 8260		08/30		KWM
Dibromomethane	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
1,2-Dichlorobenzene	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
1,3-Dichlorobenzene	0.020	บ	mg/Kg	EPA 8260		08/30 08/30		KWM
1,4-Dichlorobenzene	0.020	บ	mg/Kg	EPA 8260		08/30		KWM
Dichlorodifluoromethane	0.020	บ	mg/Kg	EPA 8260	. b. l	08/30		KWM KWM
1,1-Dichloroethane	0.020	บ	mg/Kg	EPA 8260	, -	08/30		KWM
1,2-Dichloroethane	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
1,1-Dichloroethene	0.020	Ü	mg/Kg	EPA 8260	, D. I	08/30		KWM
cis-1,2-Dichloroethene	0.020	Ü	mg/Kg	EPA 8260	7	08/30		KWM
trans1,2-Dichloroethene	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
1,2-Dichloropropane	0.020	ŭ	mg/Kg	EPA 8260	:	08/30		KWM
1,3-Dichloropropane	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
2,2-Dichloropropane	0.020	Ü	mg/Kg	EPA 8260		08/30		KWM
1,1-Dichloropropene	0.020	บ	mg/Kg	EPA 8260		08/30		KWM
Ethylbenzene	0.020	บ	mg/Kg	EPA 8260		08/30		KWM
Hexachlorobutadiene	0.020	u	mg/Kg	FPA 8260 >	+	08/30		KWM
	0.020	5		LA 0200	" Jad	00/30	07/13	1/411
				mal :	2/28/94			
					• 1			



ENVIRONMENTAL LABORATORY SERVICES



Chemlab Ref.# :93.4427-3 Client Sample ID :LON SS09 SD0: Matrix :SOIL		REPORT of ANAL	Qualiter 1	5633 B STREET ANCHORAGE. AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301
Isopropylbenzene p-Isopropyltoluene Methylene Chloride Napthalene n-Propylbenzene Styrene 1112-Tetrachloroethane 1122-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,1,1-Trichlorobenzene 1,1,2-Trichloroethane Trichloroethene Trichloroethene Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl Chloride p+m-Xylene o-Xylene	0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg	EPA 8260 (J)-A.1 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260	08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM 08/30 09/13 KWM
Semivolatile Organics Phenol bis(2-Chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol bis(2-Chloroisopropyl)e 4-Methylphenol n-Nitroso-di-n-Propylam Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Benzoic Acid bis(2-Chloroethoxy)Meth 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-Methylphenol 2-Methylnaphthalene Hexachlorocyclopentadie 2,4,6-Trichlorophenol	0.220 0.220 0.220 0.220 0.220 0.220 0.220 0.220 0.220 0.220 0.220 0.220	U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg U mg/Kg	EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270	09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV 09/10 10/14 GV





ENVIRONMENTAL LABORATORY SERVICES

		REPORT of AM	NALYSIS	5633 B STREET
Chemlab Ref.# :93.4427-3				/ ANCHORAGE, AK 99518
Client Sample ID :LON 5509 SDC	3		A = 0.7	TEL: (907) 562-2343 FAX: (907) 561-5301
Matrix :SOIL	^	/ .	Quary	Me / Annus
	$\varnothing$	Qualifer Co		
2,4,5-Trichlorophenol	0.220	U mg/Kg/	EPA 8270	09/10 10/14 G <b>V</b>
2-Chloronaphthalene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
2-Nitroaniline	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
Dimethylphthalate	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
Acenaphthylene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
2,6-Dinitrotoluene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
3-Nitroaniline	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
Acenaphthene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
2,4-Dinitrophenol	0.220	U mg/Kg	EPA 8270	09/10 10/14 G <b>V</b>
4-Nitrophenol	0.220	U mg/Kg	EPA 8270	09/10 10/14 G <b>V</b>
Dibenzofuran	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
2.4-Dinitrotoluene	0.220	U mg/Kg	EPA 8270	09/10 10/14 G <b>V</b>
Diethylphthalate	0.220	U mg/Kg	EPA 8270	09/10 10/14 G <b>V</b>
4-Chlorophenyl-Phenylet	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
Fluorene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
4-Nitroaniline	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
4,6-Dinitro-2-Methylphe	0.220	U mg/Kg	EPA 8270	09/10 10/14 G <b>V</b>
n-Nitrosodiphenylamine	0.220	U mg/Kg	EPA 8270	09/10 10/14 <b>GV</b>
4-Bromophenyl-Phenyleth	0.220	U mg/Kg	EPA 8270	09/10 10/14 <b>GV</b>
Hexachlorobenzene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
Pentachlorophenol	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
Phenanthrene	0.220	U mg/Kg	EPA 8270	09/10 10/14 <b>GV</b>
Anthracene	0.220	U mg/Kg	EPA 8270	09/10 10/14 <b>GV</b>
di-n-Butylphthalate Fluoranthene	2.13	B mg/Kg	EPA 8270(u)- E	e./ 09/10 10/14 GV
Pyrene	0.220	U mg/Kg	EPA 8270`	09/10 10/14 GV
Butylbenzylphthalate	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
3,3-Dichlorobenzidine	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
Benzo(a)Anthracene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
Chrysene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
bis(2-Ethylhexyl)Phthal	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV
di-n-Octylphthalate	0.220	U mg/Kg U ma/Ka	EPA 8270	09/10 10/14 GV
Benzo(b)Fluoranthene	0.220		EPA 8270	09/10 10/14 GV
Benzo(k)Fluoranthene	0.220		EPA 8270	09/10 10/14 GV
Benzo(a)Pyrene	0.220		EPA 8270 EPA 8270	09/10 10/14 GV
Indeno(1,2,3-cd)Pyrene	0.220		EPA 8270	09/10 10/14 GV
Dibenz(a,h)Anthracene	0.220	U mg/Kg U mg/Kg	EPA 8270	09/10 10/14 GV
Benzo(g,h,i)Perylene	0.220	U mg/Kg	EPA 8270	09/10 10/14 GV 09/10 10/14 GV
	0.220	o ilig/1/g	ELA 0270	03/10 10/14 69
Sample Preparation			EPA 3050 Digest	
Total Metals Analysis				
ICP Screen, ICF			EPA	n/a
Aluminum	1800	J mg/Kg ⊃		08/31 09/02 DLG
Antimony	54	U mg/Kg	EPA 6010	08/31 09/02 DLG
Arsenic	54	U mg/Kg	EPA 6010	08/31 09/02 DLG
Barium	64	Jmg/Kg J		08/31 09/02 DLG
Beryllium	27	U mg/Kg	EPA 6010	08/31 09/02 DLG
Cadmium	2.7	U mg/Kg	EPA 6010	08/31 09/02 DLG
Calcium	63000	J mg/KgJ		08/31 09/02 DLG
Chromium	2.7	U mg/Kg	EPA 6010	. 08/31 09/02 DLG
Cobalt	5.4	II ma/Ka	FPA 6010 A	08/31 09/02 DLG
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	o	in the charges by	$\mathcal{H}_{l_{n_{-}}}$	,
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<u> </u>	Men	ber of the SGS Gr	oup (Société Générale de Surve	・ ベール・ブ pillance)
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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4427-3

Client Sample II Ma

Client Sample	ID :LON SS09 SD03			FAX: (907) 561-5301
Matrix	:SOIL	andfes Course		
Copper	6.3	mg/Kg EPA	6010 08/3	31 09/06 DLG
Iron	8800		(6010 08/3	31 09/02 DLG
Lead	5.4			31 09/02 DLG
Magnesium	37000	Jmg/Kg J. ( EPA	6010 08/3	31 09/02 D <b>LG</b>
Manganese	110		6010 08/3	31 09/02 DLG
Molybdenum	2.7		A 6010 08/3	31 09/02 D <b>LG</b>
Nickel	4.0	mg/Kg EPA	A 6010 08/3	31 09/06 D <b>LG</b>
Potassium	380	mg/Kg EPA	A 6010 08/3	31 09/02 D <b>LG</b>
Selenium	54	U mg/Kg EPA	A 6010 08/3	31 09/02 DLG
Silver	2.7	U J mg/Kg B. I EPA	A 6010 08/:	31 09/02 D <b>LG</b>
Sodium	200	mg/Kg EPA	A 6010 08/:	31 09/06 DLG
Thallium	0.26	U mg/Kg EP#	A 7841 08/:	30 09/01 KAW
Vanadium	15	mg/Kg EPA	A 6010 08/3	31 09/02 D <b>LG</b>
Zinc	11	mg/Kg EPA	A 6010 08/:	31 09/02 DLG

All chays 2 2/16/94

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

5633 B ST

TEL: (907) 562-2343

ANCHORAGE, AK 99

NA = Not Analyze

LT = Less Than

GT = Greater Than



SSS Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Matrix

Client Sample ID :LON SS09 SW01 :WATER

:93.4427-4

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name

Chemlab Ref.#

:RAY MORRIS :DEW LINE

Project# PWSID

: LONELY :UA

WORK Order

:70215

Report Completed :10/21/93 Collected

Received

:08/27/93

@ 09:15 hrs. :08/29/93 @ 12:45 hrs.

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, S.W., ROBERT T., AND JERRY M.

	Parameter 	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.0015		mg/L	EPA 8260		09/03	09/03	KWM
	Bromobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
	Bromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
	Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
	Bromoform	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Bromomethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
_	sec-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	tert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03		KWM
4	Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Chloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Chloroform	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Chloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Dibromochloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,2-Dichloropenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,2-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	trans1,2-Dichloroethene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Ethylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
	p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Chemlab Ref.# :93.4427-4 Client Sample ID :LON SS09 SW01

Matrix :WATER

matrix :WATER					
Methylene Chloride	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
Napthalene	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
n-Propylbenzene	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
Styrene	0.0010 U	mg/L	EPA 8260	09/03 09/03	
1112-Tetrachloroethane	0.0010 U	mg/L	EPA 8260		KWM
1122-Tetrachloroethane	0.0010 U	mg/L		09/03 09/03	KWM
Tetrachloroethene	0.0010 U	_	EPA 8260 EPA 8260	09/03 09/03	KWM
Toluene	0.0048	mg/L		09/03 09/03	KWM
1,2,3-Trichlorobenzene	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
1,2,4-Trichlorobenzene	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
1,1,1-Trichloroethane		mg/L	EPA 8260	09/03 09/03	KWM
1,1,2-Trichloroethane		mg/L	EPA 8260	09/03 09/03	KWM
Trichloroethene	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
Trichlorofluoromethane	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
1,2,3-Trichloropropane	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
1,2,4-Trimethylbenzene	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
1,3,5-Trimethylbenzene	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
Vinyl Chloride	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
p+m-Xylene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
o-Xylene	0.0021 0.0017	mg/L	EPA 8260	09/03 09/03	KWM
O-MYTERIE	0.0017	mg/L	EPA 8260	09/03 09/03	KWM
Semivolatile Organics			EPA 8270		_
Phenol	0.050 U	mg/L	EPA 8270	09/03 09/27	
bis(2-Chloroethyl)ether	0.050 U	mg/L	EPA 8270	09/03 09/27	
2-Chlorophenol	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
1,3-Dichlorobenzene	0.050 ป	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
1,4-Dichlorobenzene	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
Benzyl Alcohol	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
1,2-Dichlorobenzene	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
2-Methylphenol	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
bis(2-Chloroisopropyl)e	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
4-Methylphenol	0 <b>.050</b> U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
n-Nitroso-di-n-Propylam	0.050 U	mg/L	EPA 8270	09/03 09/27	Ğ <b>V</b>
Hexachloroethane	0.050 U	mg/L	EPA 8270	09/03 09/27	Ğ <b>V</b>
Nitrobenzene	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
Isophorone	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
2-Nitrophenol	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
2,4-Dimethylphenol	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
Benzoic Acid	0.050 U	mg/L	EPA 8270	09/03 09/27	<b>GV</b>
bis(2-Chloroethoxy)Meth	0 <b>.050</b> U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
2,4-Dichlorophenol	0.050 U	mg/L	EPA 8270	09/03 09/27	<b>GV</b>
1,2,4-Trichlorobenzene	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
Naphthalene	0 <b>.050</b> U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
4-Chloroaniline	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
Hexachlorobutadiene	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
4-Chloro-3-Methylphenol	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
2-Methylnaphthalene	0.050 ប	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
Hexachlorocyclopentadie	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
2,4,6-Trichlorophenol	0.050 U	mg/L	EPA 8270	09/03 09/27	G <b>V</b>
2,4,5-Trichlorophenol	0. <b>05</b> 0 U	mg/L	EPA 8270	09/03 09/27	GV
2-Chloronaphthalene	ט 0.050	mg/L	EPA 8270	09/03 09/27	





ENVIRONMENTAL LABORATORY SERVICES

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5633 B STREET NCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301	8 3
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'03 09 <b>/27</b> G	G <b>V</b> G <b>V</b> G <b>V</b>
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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS ANCHORAGE, AK 99518 Chemlab Ref.# :93.4427-4 TEL: (907) 562-2343 FAX: (907) 561-5301 Client Sample ID :LON SS09 SW01 Matrix :WATER Custiel (count 09/07 09/10 DLG EPA 6010 mq/L Magnesium 46 09/07 09/10 DLG 0.050 EPA 6010 Manganese H mg/L 09/07 09/10 DLG 0.050 EPA 6010 Molybdenum mg/L 09/07 09/10 DLG 0.050 U mg/L EPA 6010 Nickel DLG 09/07 09/10 Potassium 11 mg/L EPA 6010 09/07 09/10 DLG 0.10 U EPA 6010 Selenium mg/L DLG U J mg/L B.1 09/07 09/10 0.050 EPA 6010 Silver 09/07 09/10 DLG 150 J. LJ\pm Z EPA 6010 Sodium BMW 09/06 09/08 0.0050 U EPA 7841 mg/L Thallium DLG 09/07 09/10 0.050 EPA 6010 U mg/L Vanadium DLG 09/07 09/10 EPA 6010 0.050 mg/L H Zinc Dissolved Metals Analys EPA n/a ICP Screen, ICF DFL 09/11 09/14 0.10 U mq/L EPA 6010 Aluminum 09/11 09/14 DFL 0.10 U mg/L EPA 6010 Antimony 09/11 09/14 DEL 0.10 U mg/L EPA 6010 Arsenic 09/11 09/14 DFL EPA 6010 0.27 mg/L Barium 09/11 09/14 DFL EPA 6010 0.050 U mg/L Beryllium EPA 6010 09/11 09/14 DFL 0.050 U mg/L Cadmium 09/11 09/14 DFL EPA 6010 47 mg/L Calcium 09/11 09/14 DFL 0.050 EPA 6010 mg/L Chromium 09/11 09/14 EPA 6010 0.10 mg/L Cobalt 09/11 09/14 EPA 6010 0.050 mq/L Copper 09/11 09/14 DFL EPA 6010 0.59 mq/L Iron 09/11 09/14 DFL EPA 6010 0.10 U mg/L Lead 09/11 09/14 DFL EPA 6010 46 . mq/L Magnesium DFL 09/11 09/14 EPA 6010 0.050 U mg/L Manganese 09/11 09/14 DET. EPA 6010 0.050 mq/L U Molybdenum DFL 09/11 09/14 EPA 6010 0.050 U mg/L Nickel DEL 09/11 09/14 EPA 6010 mq/L 11 Potassium 09/11 09/14 0.10 EPA 6010 U mg/L Selenium U J mg/LB 1, JIEPA 6010 09/11 09/14 0.050 Silver 7 mg/LJ. ( EPA 6010 09/11 09/14 150 Sodium 09/06 09/08 BMW 0.0050 EPA 7841 11 mg/L Thallium 09/11 09/14 DFL EPA 6010 mg/L 0.050 U Vanadium 09/11 09/14 DFL EPA 6010 0.050 mg/L U Zinc

BH charge six 2/16/94

UA = Unavailable

5633 B STREET

NA = Not Analyzed

LT = Less Than





Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Chemlab Ref.# Client Sample ID :LON SS09 SW02

:93.4427-5

Matrix

:WATER

Client Name : ICF KAISER ENGINEERING

WORK Order :70215

Ordered By Project Name

:RAY MORRIS :DEW LINE

Report Completed :10/21/93 Collected :08/27/93 @ 09:45 hrs

Project# PWSID

:LONELY :UA

:08/29/93 @ 12:45 hrs Received

Technical Director: STEPHEN/C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, S.W., ROBERT T., AND JERRY M.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromochloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromoform	0.0010	U	mg/L	EPA 8260		09/03		KWM
Bromomethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260	`		09/03	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
ert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03		KWM
Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260			09/03	KWM
Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Chloroethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Chloroform	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
Chloromethane	0.0010	Ŭ	mg/L	EPA 8260			09/03	KWM
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2-Dichlorobenzene	0.0010	Ŭ	mg/L	EPA 8260			09/03	KWM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260	•	09/03		KWM
Ethylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4427-5 Client Sample ID :LON SS09 SW02

Matrix :WATER

5633 B STRE ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Methylene Chloride	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
Napthalene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
n-Propylbenzene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
Styrene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
1112-Tetrachloroethane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> KWM
1122-Tetrachloroethane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> KWM
Tetrachloroethene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
Toluene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> KWM
1,2,3-Trichlorobenzene	0.0010 U	-	EPA 8260	09/03 09/ <b>03</b> KWM
		mg/L		09/03 09/03 KWM
1,2,4-Trichlorobenzene	0.0010 U	mg/L	EPA 8260	· · · · · · · · · · · · · · · · · · ·
1,1,1-Trichloroethane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
1,1,2-Trichloroethane	0.0010 U	mg/L	EPA 8260	09/03 09/03 KWM
Trichloroethene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
Trichlorofluoromethane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
1,2,3-Trichloropropane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
1,2,4-Trimethylbenzene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
1,3,5-Trimethylbenzene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
Vinyl Chloride	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
p+m-Xylene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b> K <b>WM</b>
o-Xylene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>0</b> 3 K <b>WM</b>
•		3.		
Semivolatile Organics			EPA 8270	
Phenol	0.011 U	mg/L	EPA 8270	09/03 09/27
bis(2-Chloroethyl)ether	0.011 U	mg/L	EPA 8270	09/03 09/27
2-Chlorophenol	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
1,3-Dichlorobenzene	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
1,4-Dichlorobenzene	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
Benzyl Alcohol	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
1,2-Dichlorobenzene	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
			EPA 8270	09/03 09/27 GV
2-Methylphenol	0.011 U	mg/L	EPA 8270	
bis(2-Chloroisopropyl)e	0.011 U	mg/L		· · · · · · · · · · · · · · · · · · ·
4-Methylphenol	0.011 U	mg/L	EPA 8270	
n-Nitroso-di-n-Propylam	0.011 U	mg/L	EPA 8270	09/03 09/27 GV
Hexachloroethane	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
Nitrobenzene	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
Isophorone	0.011 U	mg/L	EPA 8270	09/03 09/27 <b>GV</b>
2-Nitrophenol	0. <b>011</b> U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
2,4-Dimethylphenol	0. <b>011</b> U	mg/L	EPA 8270	09/03 09/27 <b>GV</b>
Benzoic Acid	0.011 U	m <b>g/L</b>	EPA 8270	09/03 09/ <b>27 GV</b>
<pre>bis(2-Chloroethoxy)Meth</pre>	0.011 U	mg/L	EPA 8270	09/03 09/2 <b>7</b> G <b>V</b>
2,4-Dichlorophenol	0. <b>011</b> U	mg/L	EPA 8270	09/03 09/27 <b>GV</b>
1,2,4-Trichlorobenzene	0. <b>011</b> U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
Naphthalene	0.011 U	mg/L	EPA 8270	09/03 09/2 <b>7 GV</b>
4-Chloroaniline	0.011 U	mg/L	EPA 8270	09/03 09/27 <b>GV</b>
Hexachlorobutadiene	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
4-Chloro-3-Methylphenol	0.011 U	mg/L	EPA 8270	09/03 09/27 GV
2-Methylnaphthalene	0.011 U	mg/L	EPA 8270	09/03 09/27 GV
Hexachlorocyclopentadie	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
2,4,6-Trichlorophenol	0.011 U	mg/L	EPA 8270	09/03 09/27 G <b>V</b>
2,4,5-Trichlorophenol	0.011 U	mg/L	EPA 8270	09/03 09/27 <b>GV</b>
2-Chloronaphthalene	0.011 U	mg/L	EPA 8270	09/03 09/27
i interestation	0.011	9/ 🗖		22, 32 27, 21





ENVIRONMENTAL LABORATORY SERVICES

		REPO	ORT of ANA	ALYSIS		56 <b>33 8</b> ST	REET
Chemlab Ref.# :93.4427-5						ANCHORAGE, AK	
Client Sample ID :LON SS09 St Matrix :WATER	₩02					TEL: (907) 562 FAX: (907) 561	
Matrix :WATER							
2-Nitroaniline	0.011	U	7.0 /T	EPA 8270		00 (02 00 (27	<b>~**</b>
Dimethylphthalate	0.011	Ü	mg/L mg/L	EPA 8270		09/03 09/27 09/03 09/27	G <b>V</b>
Acenaphthylene	0.011	Ŭ	mg/L	EPA 8270		09/03 09/27	G <b>V</b> G <b>V</b>
2,6-Dinitrotoluene	0.011	Ü	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
3-Nitroaniline	0.011	Ü	mg/L	EPA 8270		09/03 09/27	GV
Acenaphthene	0.011	Ü	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
2,4-Dinitrophenol	0.011	Ū	mg/L	EPA 8270		09/03 09/27	GV
4-Nitrophenol	0.011	Ü	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Dibenzofuran	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
2,4-Dinitrotoluene	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Diethylphthalate	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
4-Chlorophenyl-Phenylet	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Fluorene	0.011	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
4-Nitroaniline	0.011	U	mg/L	EPA 8270		09/03 09/27	GV
4,6-Dinitro-2-Methylphe	0.011	IJ	mg/L	EPA 8270		09/03 09/27	GV
n-Nitrosodiphenylamine	0.011	IJ	mg/L	EPA 8270		09/03 0 <b>9/27</b>	G <b>V</b>
4-Bromophenyl-Phenyleth Hexachlorobenzene	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Pentachlorophenol	0.011 0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Phenanthrene	0.011	U U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Anthracene	0.011	Ü	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
di-n-Butylphthalate	0.011	Ü	mg/L mg/L	EPA 8270 EPA 8270		09/03 09/27	G <b>V</b>
Tluoranthene	0.011	Ü	mg/L	EPA 8270		09/03 09/ <b>27</b> 09/03 09/ <b>27</b>	G <b>V</b> G <b>V</b>
yrene	0.011	Ü	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Butylbenzylphthalate	0.011	Ü	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
3,3-Dichlorobenzidine	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Benzo(a)Anthracene	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Chrysene	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
bis(2-Ethylhexyl)Phthal	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
di-n-Octylphthalate	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Benzo(b)Fluoranthene	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Benzo(k)Fluoranthene	0.011	Ü	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Benzo(a)Pyrene	0.011	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Indeno(1,2,3-cd)Pyrene	0.011	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
Dibenz(a,h)Anthracene Benzo(g,h,i)Perylene	0.011	Ü	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
benzo(g,n,r)reryrene	0.011	U	mg/L	EPA 8270		09/03 09/ <b>27</b>	G <b>V</b>
Total Metals Analysis							
ICP Screen, ICF				EPA	n/a		
Aluminum	0.10	U	mg/L	EPA 6010	11/4	09/07 09/10	DLG
Antimony	0.10	Ü	mg/L	EPA 6010		09/07 09/10	DLG
Arsenic	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG
Barium	0.25		mg/L	EPA 6010		09/07 09/10	DLG
Beryllium	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Cadmium	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Calcium	46		mg/L	EPA 6010		09/07 09/10	DLG
Chromium	0.050	U	mg/L	EPA 6010	. <u>•</u>	09/07 09/10	DLG
Cobalt	0.10	Ü	mg/L	EPA 6010		09/07 09/10	DLG
Copper Iron	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
.ead	1.2	U	mg/L	EPA 6010		09/07 09/10	DLG
	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STRE ANCHORAGE, AK 99518 Chemlab Ref.# :93.4427-5 TEL: (907) 562-2343 Client Sample ID :LON SS09 SW02 FAX: (907) 561-5301 Matrix :WATER 09/07 09/10 Magnesium 44 mq/L EPA 6010 DLG Manganese 0.050 EPA 6010 09/07 09/10 DLG mq/LMolybdenum 0.050 EPA 6010 09/07 09/10 mg/L DLG 0.050 Nickel EPA 6010 09/07 09/10 DLG mg/L Potassium 9.3 EPA 6010 09/07 09/10 DLG mg/L Selenium 0.10 U EPA 6010 09/07 09/10 DLG mg/L Silver 0.050 U EPA 6010 09/07 09/10 mg/L DLG Sodium 140 EPA 6010 09/07 09/10 mg/L DLG Thallium 0.0050 U mq/L EPA 7841 09/06 09/08 BMW Vanadium 0.050 09/07 09/10 U mg/L EPA 6010 DLG Zinc 0.050 U EPA 6010 09/07 09/10 mg/L DLG Dissolved Metals Analys ICP Screen. ICF EPA n/a Aluminum 0.10 IJ mg/L EPA 6010 09/07 09/10 DLG Antimony 0.10 EPA 6010 09/07 09/10 mq/L DLG 0.10 09/07 09/10 Arsenic mq/L EPA 6010 DLG Barium 0.24 mg/L EPA 6010 09/07 09/10 DLG Beryllium 0.050 mg/L EPA 6010 09/07 09/10 DLG 0.050 U Cadmium mg/L EPA 6010 09/07 09/10 DLG Calcium 45 EPA 6010 09/07 09/10 mg/L DLG 0.050 EPA 6010 09/07 09/10 DLG Chromium Ħ mg/L U 09/07 09/10 Cobalt 0.10 mg/L EPA 6010 09/07 09/10 Copper 0.050 U mg/L EPA 6010 Iron 0.64 EPA 6010 09/07 09/10 DLG mg/L Lead 0.10 U EPA 6010 09/07 09/10 mq/L DLG Magnesium 44 mg/L EPA 6010 09/07 09/10 DLG 0.050 Manganese U mg/L EPA 6010 09/07 09/10 DLG Molybdenum 0.050 U mg/L EPA 6010 09/07 09/10 DLG 0.050 Nickel U mg/L EPA 6010 09/07 09/10 DLG Potassium 9.6 mg/L EPA 6010 09/07 09/10 DLG Selenium 0.10 U mq/L EPA 6010 09/07 09/10 DLG Silver 0.050 U mq/L EPA 6010 09/07 09/10 DLG Sodium 140 EPA 6010 09/07 09/10 mg/L DLG Thallium 0.0050 09/06 09/08 mg/L EPA 7841 BMW 0.050 Vanadium U EPA 6010 09/07 09/10 DLG mg/L Zinc 0.050 U EPA 6010 09/07 09/10 DLG

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than



SGS Member of the SGS Group (Société Générale de Surveillance)

mg/L

See Special Instructions Above

			LON 6000 600
ICF ID	LON-SS09-S01	LON-SS09-S02	LON-SS09-S03
F&B! Number	998	1000	soil Company
Sample Type	soil	soil	V. 17.
Date Received	8/27/93	8/27/93	8/27/93 67 5,93
% Dry Weight	96	97	90 102
Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93
Leaded Gas			
JP-4	< 50	< 50	< 60
Lube Oil	3100	4000	10000
Diesel	4100 ブ	12000 oil J	16000 oil J
Spike Level			
Unknown Semi-volatile			
Pentacosane	140	150	200 outside recovery rang
Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93
PCB 1221	< 0.1	< 0.1	<0.1
PCB 1232	< 0.1	< 0.1	< 0.1
PCB 1016	< 0.1	< 0.1	<0.1
PCB 1242	< 0.1	< 0.1	< 0.1
PCB 1248	< 0.1	< 0.1	< 0.1
PCB 1254	< 0.1	< 0.1	<0.1
PCB 1260	< 0.1	< 0.1	<0.1
Spike Level			
Dibutyl Chlorendate	140	111	108
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3&4-08/31/93	#3&4-08/31/93	#3&4-08/31/93
CCI4	0.05 ブ	< 0.02	< 0.02
TCA	< 0.02	< 0.02_	< 0.02
Benzene	0.28丁	0.1 J	< 0.1
TCE	0.5ブ	< 0.02	< 0.02
Toluene	0.74	0.4 J	0.08 ブ
PCE	7.8 J	11 J	18 <i>T</i>
Ethylbenzene	6	1 V	0.9
Xylenes	15 ブ	11 J	30 J
Gasoline	170 J	240 diesel <b>√</b>	<del>ശ</del> diesel outside calibration r T
Spike level			
BFB	120	160 outside recovery li	mits 190 outside recovery limits
<del></del>		•	

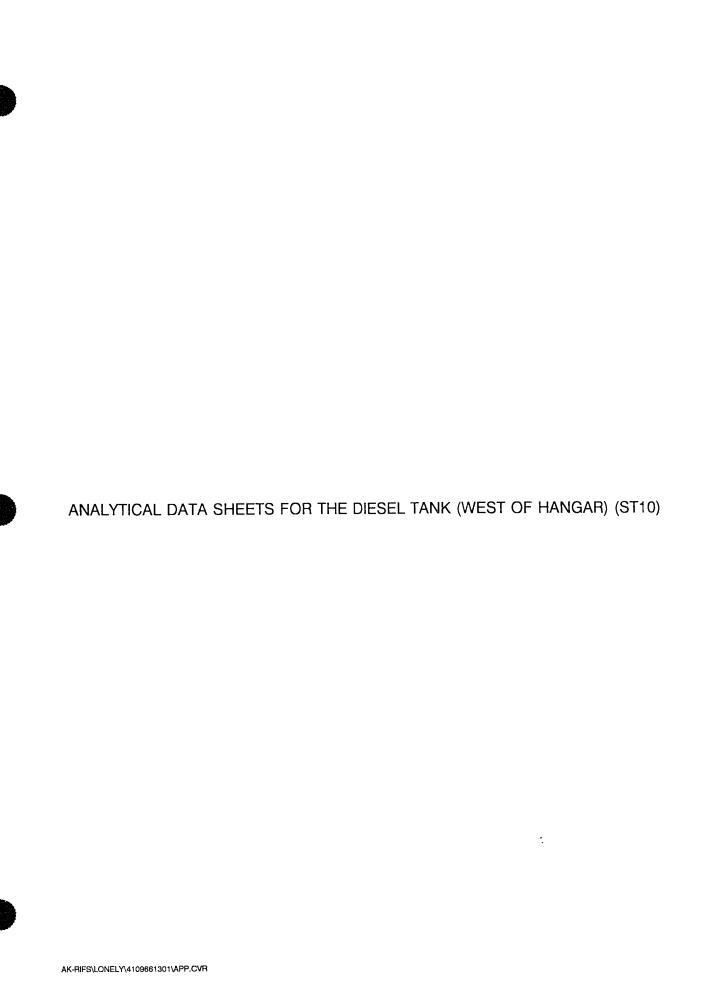
ICF ID	LON-SS09-S05 1006	LON-SS09-S06 1008	LON-SS09-2S04 1756
F&BI Number	soil	soil	soil (m
Sample Type	8/27/93	8/27/93	9/5/93
Date Received	87	49	20 y
% Dry Weight		#6-08/29/93	#5-09/06/93
Sequence Date	#6-08/29/93	#6-06/29/93	#3-03/00/33
Leaded Gas	100	<100	< 250
JP-4	< 60	<100	< 500
Lube Oil	<110	190	< 250
Diesel	7 <del>0 oil</del> <60 J	<100	< 250
Spike Level			
Unknown Semi-volatile	22	0.0	110
Pentacosane	90	88	110
Sequence Date	#6-08/29/93	#6-08/29/93	
PCB 1221	<0.1	<0.02 <0.1	
PCB 1232	<0.1	<0.02	
PCB 1016	<0.1	< <del>0.0</del> 2	
PCB 1242	< 0.1	< 0.02	
PCB 1248	< 0.1	< <del>0.0</del> 2	
PCB 1254	< 0.1	< <del>0.02</del> √	
PCB 1260	< 0.1	<0.02 V	
Spike Level			
Dibutyl Chlorendate	90	88	
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence		#3&4-08/31/93	#1&2-09/07/93
CCI4	< 0.02	£0.0260.04	< 0.5
TCA	< 0.02	< <del>0.0</del> 2	< 0.5
Benzene	< 0.02	< <del>0.0</del> 2	< 0.1
TCE	< 0.02	<0.02	< 0.5
Toluene	< 0.02	≤ <del>0.0</del> 2	< 0.1
PCE	< 0.02	< 0.02	< 0.5
Ethylbenzene	< 0.02	<del>&lt;0.0</del> 2 √	< 0.1
Xylenes	< 0.04	<0.20.4	< 0.2
Gasoline	<2 T	12 diesel 🗸	<5 ブ
Spike level			
BFB	. 115	115	99
J. D			

ICF ID	LON-SS09-2S06	LON-SS09-2S07	LON-SS09-SD01
F&Bl Number	1758	1760	1022
Sample Type	soil	soil	soil Con 41.95
Date Received	9/5/93	9/5/93	8/27/93
% Dry Weight	90	20	85 I ⁰
Sequence Date	#5-09/06/93	#5-09/06/93	
Leaded Gas	0 00,00,00		
JP-4	< 60	< 250	
Lube Oil	<120	<500	
Diesel	<60	<250	
Spike Level	100		
Unknown Semi-volatile			
Pentacosane	112	120	
Sequence Date	112	. = 0	
PCB 1221			
PCB 1232			
PCB 1232			
PCB 1010			
PCB 1248 PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE District			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate Endrin Ketone			·
Methoxy Chlor Chlordane			
Dibutyl Chlorendate			
Spike Level	#192.00/07/02	#1&2-09/07/93	#1&2-08/28/93
Vol Sequence	#1&2-09/07/93	#1&2-09/07/93 <0.5	<0.02
CCI4	<0.2 <0.2	< 0.5 < 0.5	<0.02
TCA	< 0.2 < 0.02	<0.5 <0.1	<0.02
Benzene	< 0.02	<0.1	
TCE		<0.5	<0.02
Toluene	<0.02 <0.2	< 0.1 < 0.5	<0.02
PCE			<0.02
Ethylbenzene	< 0.02	<0.1	<0.02
Xylenes	< 0.04	<0.2	
Gasoline	<1丁	<5丁	<2 J
Spike level	0.4	400	140
BFB	94	103	112

ICF ID	LON-SS09-SD02	LON-SS09-SW01 1010	LON-SS09-SW01
F&BI Number	1034 soil	water	Co
Sample Type	8/27/93	8/27/93	8/27/93 b
Date Received	79	0/27/30	3/2//00
% Dry Weight	#6-08/29/93	#5-08/30/93	
Sequence Date	#6-06/29/93	#5-08/30/93	
Leaded Gas	< 60	< 200	
JP-4	<130	<2000	
Lube Oil	2001 < 90	<2000 ∠1000 J	
Diesel	90-011 - 78	\$200-7000	
Spike Level			
Unknown Semi-volatile	90	40 outside recovery limits	
Pentacosane	#6-08/29/93	#5-08/30/1993	
Sequence Date	#6-06/29/93 <0.1	#9-00/30/1993 <2 J	
PCB 1221	<0.1	<2	
PCB 1232		<2	
PCB 1016	<0.1	<2	
PCB 1242	<0.1	<2	
PCB 1248	< 0.1	1	
PCB 1254	< 0.1	<2	
PCB 1260	< 0.1	<2 ₩	
Spike Level			
Dibutyl Chlorendate	90	40 outside recovery limits	
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	2-08/28/93, #3&4-08/	31/93	#1&2-08/28/93
CCI4	< 0.02		<1
TCA	< 0.02		<1
Benzene	< 0.02		2 J
TCE	< 0.02	*	<1
Toluene	< 0.02		6
PCE	< 0.02		<1
Ethylbenzene	< 0.02		<1
Xylenes	< 0.04		6 J
Gasoline	<2 J		<50 <b>J</b>
Spike level			
BFB	101		106

ICF ID	LON-SS09-SW02	LON-SS09-SW02	
F&Bl Number	1016	1018	
Sample Type	water	water	
Date Received	8/27/93	8/27/93	
% Dry Weight			
Sequence Date	#5-08/30/93		
Leaded Gas			
JP-4	<200		
Lube Oil	<2000		
Diesel	5200 · 1000J		
Spike Level			
Unknown Semi-volatile			
Pentacosane	39 outside recovery limits		
Sequence Date	#5-08/30/1993		
PCB 1221	<2 J		
PCB 1232	<2		
PCB 1016	<2		
PCB 1242	<2		
PCB 1248	<2		
PCB 1254	<2 \		
PCB 1260	<2 🗸		
Spike Level			
Dibutyl Chlorendate	39 outside recovery limits		
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin Endosulfan II			
DDD			
Endrin Aldehyde DDT			
Endosulfan Sulfate			
Endosultan Sultate Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence		#1&2-08/28/93	
CCI4		#1&2-00/20/33 <1	
TCA		<1	
Benzene		2丁	
TCE		<1	
Toluene		<1	
PCE		<1	
Ethylbenzene		<1	
Xylenes		<2	
Gasoline		<50 <b>₹</b>	
Spike level		~ 50 <b>V</b>	
BFB		95	
5. 5		00	

by 5.95





ENVIRONMENTAL LABORATORY SERVICES

hemlab Ref.#

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518

PWSID

:93.4426-1 Client Sample ID :LON ST10 SD03

Matrix :SOIL

TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name Ordered By

:ICF KAISER ENGINEERING

:RAY MORRIS

Project Name Project#

:DEW LINE :LONELY :UA

WORK Order :70213

Report Completed :11/16/93

Collected :08/27/93 @ 11:31 hrs Received :08/29/93 @ 12:45 hrs

Technical Director: STEPHEN C. EDE

Released By : All

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z. VOC

CONTAINER BROKEN ON ARRIVAL TO LAB.

	Parameter	Results Q	QC Qual	Ünits	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene		U	mg/Kg	EPA 8260		08/30	09/06	KWM
	Bromobenzene	0.250	IJ	mg/Kg	EPA 8260		08/30	09/06	KWM
	Bromocnloromethane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	Bromodichloromethane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	Bromoform	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	Bromomethane		Ü	mg/Kg	EPA 8260		08/30	09/06	KWM
	n-Butylbenzene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
_	sec-Butylbenzene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	tert-Butylbenzne	0.250	U	mg/Kg	EPA 8260		08/30		KWM
	Carbon Tetrachloride	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	Chlorobenzene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	Chloroethane	0.250	U	mg/Kg	EPA 8260		08/30		KWM
	Chloroform	0.250	U	mg/Kg	EPA 8260		08/30		KWM
	Chloromethane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	2-Chlorotoluene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	4-Chlorotoluene	0.250	U	mg/Kg	EPA 8260		08/30		KWM
	Dibromochloromethane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	12Dibromo3Chloropropane	0.250	U	mg/Kg	EPA 8260		08/30		KWM
	1,2-Dibromoethane	0.250	U	mg/Kg	EPA 8260		08/30		KWM
	Dibromomethane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	1,2-Dichlorobenzene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	1,3-Dichlorobenzene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	1,4-Dichlorobenzene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	Dichlorodifluoromethane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	1,1-Dichloroethane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	1.2-Dichloroethane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	1.1-Dichloroethene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	cis-1,2-Dichloroethene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	trans1,2-Dichloroethene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	1,2-Dichloropropane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	1,3-Dichloropropane	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	2,2-Dichloropropane	0.250	U	mg/Kg	EPA 8260		08/30		KWM
	1,1-Dichloropropene	0.250	U	mg/Kg	EPA 8260	· <u>*</u>	08/30	•	KWM
	Ethylbenzene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
	Hexachlorobutadiene	0.250	U	mg/Kg	EPA 8260		08/30		KWM
	Isopropylbenzene	0.250	U	mg/Kg	EPA 8260		08/30	09/06	KWM
				_					



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS DC

:93.4426-1 Chemlab Ref.# Client Sample ID :LON ST10 SD03

5633 B STR ANCHORAGE, AK 99518 TEL: (907) 562-2343

Matrix :SOIL	5505				X: (907) 561-	
p-Isopropyltoluene	0.250	J mg/Kg	EPA 8260	08/30	09/06	KWI
Methylene Chloride		J m <b>g/Kg</b>	EPA 8260		09/06	KWI
Napthalene		J m <b>g/K</b> g	EPA 8260		09/06	KWI
n-Propylbenzene		J mg/Kg	EPA 8260		09/06	KWM
Styrene		J mg/Kg	EPA 8260	08/30	09/06	KWE
1112-Tetrachloroethane		J m <b>g/Kg</b>	EPA 8260		09/06	KWM
1122-Tetrachloroethane	0.250 t	J m <b>g/K</b> g	EPA 8260		09/06	KWM
Tetrachloroethene		J m <b>g/K</b> g	EPA 8260	08/30		KWM
Toluene		J m <b>g/Kg</b>	EPA 8260		09/06	KWM
1,2,3-Trichlorobenzene		J mg/Kg	EPA 8260		09/06	KWM
1,2,4-Trichlorobenzene		J mg/Kg	EPA 8260		09/06	KWM
1,1,1-Trichloroethane		J mg/Kg	EPA 8260	08/30		KWM
1,1,2-Trichloroethane		J m <b>g/Kg</b>	EPA 8260	08/30		KWM
Trichloroethene		J mg/Kg	EPA 8260	08/30		KWM
Trichlorofluoromethane		J mg/Kg	EPA 8260	08/30		KWM
1.2,3-Trichloropropane		J mg/Kg	EPA 8260	08/30		KWM
1,2,4-Trimethylbenzene		J mg/Kg	EPA 8260	08/30		KWM
1,3,5-Trimethylbenzene	0.284	mg/Kg	EPA 8260	08/30.	•	KWM
Vinyl Chloride		J mg/Kg	EPA 8260	08/30		KWM
p+m-Xylene		J mg/Kg	EPA 8260	08/30		KWM
o-Xylene	0.250 t	J mg/Kg	EPA 8260	08/30.	09/06	KWM
Semivolatile Organics			EPA 8270			<u>.</u>
Phenol	0.250	J mg/Kg	EPA 8270	09/10	10/14	V
bis(2-Chloroethyl)ether	0.250 t		EPA 8270	09/10	10/14	GV
2-Chlorophenol	0.250 t	J mg/Kg	EPA 8270	09/10	10/14	<b>GV</b>
1,3-Dichlorobenzene	<b>0.250</b> t	J mg/Kg	EPA 8270	09/10	10/14	<b>GV</b>
1,4-Dichlorobenzene		J m <b>g/K</b> g	EPA 8270	09/10	10/14	G <b>V</b>
Benzyl Alcohol		J <b>mg∕K</b> g	EPA 8270	09/10	10/14	G <b>V</b>
1,2-Dichlorobenzene		J mg/Kg	EPA 8270	09/10		G <b>V</b>
2-Methylphenol		J mg/Kg	EPA 8270	09/10	10/14	G <b>V</b>
bis(2-Chloroisopropyl)e		J mg∕Kg	EPA 8270	09/10		G <b>V</b>
4-Methylphenol		J mg/Kg	EPA 8270	09/10		G <b>V</b>
n-Nitroso-di-n-Propylam		J mg/Kg	EPA 8270	09/10		G <b>V</b>
Hexachloroethane		J mg/Kg	EPA 8270	09/10		G <b>V</b>
Nitrobenzene		J m <b>g/Kg</b>	EPA 8270	09/10		GV
Isophorone		J mg/Kg	EPA 8270	09/10		G <b>V</b>
2-Nitrophenol		J mg/Kg	EPA 8270	09/10		G <b>V</b>
2,4-Dimethylphenol	0.250		EPA 8270	09/10		GV.
Benzoic Acid	0.250 t	J. J	EPA 8270	09/10		GV
bis(2-Chloroethoxy)Meth	0.250 t	J. J	EPA 8270	09/10		G <b>V</b>
2,4-Dichlorophenol		J mg/Kg	EPA 8270	09/10		GV
1,2,4-Trichlorobenzene		J mg/Kg	EPA 8270	09/10		G <b>V</b>
Naphthalene		J mg/Kg	EPA 8270	09/10		GV
4-Chloroaniline		J mg/Kg	EPA 8270	09/10		G <b>V</b>
Hexachlorobutadiene		J mg/Kg	EPA 8270	09/10		G <b>V</b>
4-Chloro-3-Methylphenol		J mg/Kg	EPA 8270	09/10		GV
2-Methylnaphthalene		J mg/Kg	EPA 8270	09/10		GV
Hexachlorocyclopentadie 2,4,6-Trichlorophenol		J mg/Kg	EPA 8270 EPA 8270	09/10		G <b>V</b> G <b>V</b>
2,4,5-Trichlorophenol		J mg/Kg J mg/Kg	EPA 8270	09/10 09/10		GV GV
2,1,3 IIICILOLOPHENOL	0.230	o ma\va	LA 0270		10/17	

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS ACC 5633 B STREET Chemlab Ref.# :93.4426-1 ANCHORAGE, AK 99518 TEL: (907) 562-2343 Client Sample ID :LON ST10 SD03 FAX: (907) 561-5301 Matrix :SOIL

2-Chloronaphthalene EPA 8270 09/10 10/14 GV 0.250 U mg/Kg 0.250 EPA 8270 09/10 10/14 GV 2-Nitroaniline U mg/Kg 09/10 10/14 GV 0.250 mg/Kg EPA 8270 Dimethylphthalate U 09/10 10/14 **GV** EPA 8270 Acenaphthylene 0.250 U mg/Kg 09/10 10/14 GV EPA 8270 2.6-Dinitrotoluene 0.250 U ma/Ka 09/10 10/14 GV 0.250 U EPA 8270 3-Nitroaniline ma/Ka 09/10 10/14 EPA 8270 GV Acenaphthene 0.250 U ma/Ka EPA 8270 09/10 10/14 GV 2.4-Dinitrophenol 0.250 U mq/Kg 0.250 09/10 10/14 4-Nitrophenol U EPA 8270 GV mg/Kg 0.250 U EPA 8270 09/10 10/14 GV Dibenzofuran mg/Kg 0.250 U EPA 8270 09/10 10/14 GV 2.4-Dinitrotoluene ma/Ka EPA 8270 09/10 10/14 0.250 U GV Diethylphthalate mg/Kg 0.250 EPA 8270 09/10 10/14 GV 4-Chlorophenyl-Phenylet U mg/Kg EPA 8270 09/10 10/14  $\mathsf{G}\mathbf{V}$ Fluorene 0.250 U ma/Ka EPA 8270 09/10 10/14 4-Nitroaniline 0.250 mg/Kg GV 4,6-Dinitro-2-Methylphe EPA 8270 09/10 10/14 0.250 GV mg/Kg EPA 8270 0.250 09/10 10/14 GV n-Nitrosodiphenylamine mg/Kg 0.250 EPA 8270 09/10 10/14 GV 4-Bromophenyl-Phenyleth mg/Kg Hexachlorobenzene 0.250 U mq/Kg EPA 8270 09/10 10/14 **GV** Pentachlorophenol EPA 8270 09/10 10/14 **GV** 0.250 mg/Kg 0.250 09/10 10/14 **GV** mg/Kg EPA 8270 Phenanthrene H 0.250 EPA 8270 09/10 10/14 **GV** U Anthracene mg/Kg 0.250 U EPA 8270 09/10 10/14 GV di-n-Butylphthalate mg/Kg 0.250 EPA 8270 09/10 10/14 GV Fluoranthene U mg/Kg EPA 8270 GV Pyrene 0.250 U 09/10 10/14 mq/Kq EPA 8270 09/10 10/14 **GV** Butylbenzylphthalate 0.250 11 mg/Kg 3.3-Dichlorobenzidine 0.250 U mg/Kg EPA 8270 09/10 10/14 **GV** Benzo(a)Anthracene GV 0.250 U ma/Ka EPA 8270 09/10 10/14 **GV** 09/10 10/14 Chrysene 0.250 U ma/Ka EPA 8270 GV09/10 10/14 U EPA 8270 bis(2-Ethylhexyl)Phthal 0.250 mg/Kg **GV** EPA 8270 09/10 10/14 di-n-Octylphthalate 0.250 - [] ma/Ka EPA 8270 09/10 10/14 GV Benzo(b)Fluoranthene 0.250 U mg/Kg EPA 8270 09/10 10/14 GV 0.250 U Benzo(k)Fluoranthene mg/Kg EPA 8270 0.250 U 09/10 10/14 **GV** Benzo(a)Pyrene mg/Kg 09/10 10/14 GV Indeno(1,2,3-cd)Pyrene 0.250 U mg/Kg EPA 8270 09/10 10/14 **GV** 0.250 U EPA 8270 Dibenz(a,h)Anthracene mg/Kg 0.250 U EPA 8270 09/10 10/14 Benzo(g,h,i)Perylene ma/Ka

See Special Instructions Above See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than



**SSS** Member of the SGS Group (Société Générale de Surveillance)

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

:93.4626-12 sample ID :LON-ST10-2SD09

:SOIL

5633 B ST ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

lient Name

:ICF KAISER ENGINEERING

ordered By Project Name

:RAY MORRIS :DEW LINE

Project# PWSID

: LONELY

:UA

WORK Order

Received

:70635 :10/07/93 Report Completed

Collected

:09/05/93 :09/07/93

@ 14:30 @ 11:00 hrs

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G.

00

Parameter	Results Qu	QC ual Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics			EPA 8260				
Benzene	0.030 t	J mg/Kg	EPA 8260 (A)	-A 1	09/08	00/30	KWM
Bromobenzene	0.030 t		EPA 8260	Pi II		09/30	KWM
Bromochloromethane	0.030	3	EPA 8260		09/08		KWM
Bromodichloromethane	0.030 t		EPA 8260		09/08		KWM
Bromoform	0.030 t	<b>3,</b> 5	EPA 8260		09/08		KWM
Bromomethane	0.030		EPA 8260		09/08		KWM
n-Butylbenzene	0.030 t		EPA 8260		09/08		KWM
sec-Butylbenzene	0.030		EPA 8260		09/08		KWM
tert-Butylbenzne	0.030 t		EPA 8260 /		09/08		- KAT
Carbon Tetrachloride	0.030 ± U		EPA 8260 /		09/08		
Chlorobenzene	0.030		EPA 8260 /		09/08		KWM
Chloroethane	0.030		EPA 8260/		09/08		KWM
Chloroform	0.030	J mg/Kg	EPA 8260/		09/08		KWM
Chloromethane	0.030 j t	J mg/Kg	EPA 8260		09/08		KWM
2-Chlorotoluene	0.030 t	J mg/Kg	EPA 8260		09/08		KWM
4-Chlorotoluene	0.030 t	J mg/Kg	EPA 826¢		09/08		KWM
Dibromochloromethane	0.030 U	mg/Kg	EPA 8260		09/08		KWM
12Dibromo3Chloropropane	0.030 U	J mg/Kg	EPA 8260		09/08		KWM
1,2-Dibromoethane	0.030 U	J m <b>g/K</b> g	EPA 8260		09/08		KWM
Dibromomethane	0.030 U	J m <b>g∕K</b> g	EPA 8260		09/08		KWM
1,2-Dichlorobenzene	0.030 U		EPA 8260		09/08		KWM
1,3-Dichlorobenzene	0.030 U		EPA 8260		09/08	09/30	KWM
1.4-Dichlorobenzene	0.030 U	J J	EPA 8260	•	09/08	09/30	KWM
Dichlorodifluoromethane	0.030 U		EPA 8260		09/08		KWM
1,1-Dichloroethane	0.030 U	3	EPA 8260		09/08	09/30	KWM
1,2-Dichloroethane	0.030 U	3, 4, 3	EPA 8260\		09/08	09/30	KWM
1,1-Dichloroethene	0.030 U	3 3	EPA 8260 \		09/08	09/30	KWM
cis-1,2-Dichloroethene	0.030 U	3, 4, 5	EPA 8260 \		09/08	09/30	KWM
trans1,2-Dichloroethene	0.030 U		EPA 8260 \		09/08	09/30	KWM
1,2-Dichloropropane	0.030 U	J. 11.J	EPA 8260		09/08		KWM
1,3-Dichloropropane	0.030 U	3, 513	EPA 8260		09/08	09/30	KWM
2,2-Dichloropropane	0.030 U	3/ ••5	EPA 8260 \		09/08	09/30	KWM
1,1-Dichloropropene	0.030 U		EPA 8260	.•	09/08		KWM
Ethylbenzene	0.030 U	3, 4, 5	EPA 8260		09/08		KWM
Hexachlorobutadiene	0.030 U	3	EPA 8260		09/08		KWM
Isopropylbenzene	0. <b>0</b> 30 U	3,	EPA 8260		09/08		KWM
p-Isopropyltoluene	0.030 U	mg/Kg	EPA 8260 💙		09/08	09/30	1/4-IM



**SES** Member of the SGS Group (Société Générale de Surveillance)

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS chemlab Ref.# :93.4626-12

client Sample ID :LON-ST10-2SD09

:SOIL

o-Xylene

					3	
Methylene Chloride	0.030	U	mg/Kg	EPA 8260 (J)-A	09/08 09/30	KWM
Napthalene	0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWM
n-Propylbenzene	0.030	U	mg/Kg	EPA 8260 \	09/08 09/30	KWM
Styrene	0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWM
1112-Tetrachloroethar	ne 0.030	U	mg/Kg	EPA 8260 \	09/08 09/30	KWM
1122-Tetrachloroethar		U	mg/Kg	EPA 8260 \	09/08 09/30	KWM
Tetrachloroethene	0.030	U	mg/Kg	EPA 8260 \	09/08 09/30	KWM
Toluene	0.030	U	mg/Kg	EPA 8260 \	09/08 09/30	KWM
1.2.3-Trichlorobenzer	ne 0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWH
1.2.4-Trichlorobenzer	ne 0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWM
1,1,1-Trichloroethane	0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWM
1,1,2-Trichloroethane	0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWM
Trichloroethene	0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWM
Trichlorofluoromethan	ne 0.030	U	mg/Kg	EPA 8260 \	09/08 09/30	KWM
1,2,3-Trichloropropar	ne 0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWM
1,2,4-Trimethylbenzer	ne 0.030	U	mg/Kg	EPA 8260	09/08 09/30	.KWM
1,3,5-Trimethylbenzer	ne 0.030	U	mg/Kg	EPA 8260 /	09/08 09/30	KWM
Vinyl Chloride	0.030	U	mg/Kg	EPA 8260 /	09/08 09/30	KWM
p+m-Xylene	0.030	U	mg/Kg	EPA 8260	09/08 09/30	KWM

mg/Kg

EPA 8260 🏋

See Special Instructions Above See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

0.030 U

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

5633 B STREET

ANCHORAGE, AK 99518 TEL: (907) 562-2343

09/08 09/30

KWM

FAX: (907) 561-5301

GT = Greater Than



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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4426-2 Client Sample ID :LON ST10 SW02

Matrix :WATER

Client Name :ICF KAISER ENGINEERING

Ordered By :RAY MORRIS Project Name :DEW LINE Project# :LONELY

PWSID :UA

5633 B STR ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

WORK Order :70213

Report Completed :11/16/93

@ 12:00 hr Collected :08/27/93 Received :08/29/93 @ 12:45 hr

Technical Director: STEPHEN C. EDE Released By : Director

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

Parameter	Results (	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	In <b>i</b> -
Volatile Organics								
Benzene	0.0010	IJ	mg/L	EPA 8260 EPA 8260		00/02	09/03	KWI
Bromobenzene	0.0010	IJ	mg/L	EPA 8260			09/03	KWI KWI
Bromochloromethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWI
Bromodichloromethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWI
Bromoform	0.0010	Ü	mg/L	EPA 8260			09/03	KWI
Bromomethane	0.0010	U	mg/L	EPA 8260			09/03	KWI
n-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWI
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KMI
tert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/03	TO I
Carbon Tetrachloride	0.0010	Ü	mg/L	EPA 8260			09/03	
Chlorobenzene	0.0010	Ü	mg/L	EPA 8260			09/03	The
Chloroethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWE
Chloroform	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
Chloromethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
2-Chlorotoluene	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
4-Chlorotoluene	0.0010	IJ	mg/L	EPA 8260			09/03	KWM
Dibromochloromethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
12Dibromo3Chloropropane	0.0010	IJ	mg/L	EPA 8260			09/03	KWM
1,2-Dibromoethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
Dibromomethane	0.0010	Ū	mg/L	EPA 8260			09/03	KWM
1,2-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
1,3-Dichlorobenzene	0.0010	Ū	mg/L	EPA 8260			09/03	KWM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,2-Dichloroethane	0.0020		mg/L	EPA 8260			09/03	KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Ethylbenzene	0.0010	U	mg/L	EPA 8260	•	09/03	09/03	KWM
Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KUM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS SICH 5633 B STREET Chemlab Ref.# :93.4426-2 ANCHORAGE, AK 99518 Client Sample ID :LON ST10 SW02 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER Methylene Chloride EPA 8260 09/03 09/03 0.0010 U I\pm KWI Napthalene 0.0010 U ma/L EPA 8260 09/03 09/03 KWI* n-Propylbenzene 0.0010 U EPA 8260 09/03 09/03 mq/L KWI 09/03 09/03 Styrene 0.0010 U EPA 8260 mg/L KWY. 1112-Tetrachloroethane EPA 8260 0.0010 U mq/L 09/03 09/03 KWY 1122-Tetrachloroethane 0.0010 U EPA 8260 09/03 09/03 mg/L KWM. Tetrachloroethene 0.0010 U EPA 8260 09/03 09/03 mg/L KWY. EPA 8260 Toluene 0.0010 U mg/L 09/03 09/03 KWM 1,2,3-Trichlorobenzene EPA 8260 09/03 09/03 0.0010 U mg/L KWM EPA 8260 09/03 09/03 1,2,4-Trichlorobenzene 0.0010 U mg/L KWM 1,1,1-Trichloroethane 0.0010 U EPA 8260 09/03 09/03 mg/L KWM 1,1,2-Trichloroethane EPA 8260 09/03 09/03 0.0010 U mg/L KWM EPA 8260 Trichloroethene 0.0010 IJ 09/03 09/03 mg/L KWM Trichlorofluoromethane 0.0010 EPA 8260 09/03 09/03 U mg/L KWM 1.2.3-Trichloropropane EPA 8260 09/03 09/03 0.0010 U mg/L KWM 1,2,4-Trimethylbenzene 0.0010 EPA 8260 09/03 09/03 U mg/L KWM 1,3,5-Trimethylbenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWM EPA 8260 Vinyl Chloride 0.0010 U mq/L 09/03 09/03 KWM p+m-Xylene 0.0010 EPA 8260 09/03 09/03 U mg/L KWM o-Xylene 0.0010 U mg/L EPA 8260 09/03 09/03 KWM EPA 8270 Semivolatile Organics Phenol 0.010 mq/L EPA 8270 09/03 09/27 GV bis(2-Chloroethyl)ether 0.010 EPA 8270 09/03 09/27 **GV** mq/L 2-Chlorophenol 0.010  $\Pi$ ma/L EPA 8270 09/03 09/27 GV 1.3-Dichlorobenzene EPA 8270 09/03 09/27 0.010 U ma/L **GV** mg/L 09/03 09/27 1.4-Dichlorobenzene 0.010 U EPA 8270 **GV** 09/03 09/27 Benzyl Alcohol 0.010 EPA 8270 GV 11 mq/L 1,2-Dichlorobenzene 0.010 U EPA 8270 09/03 09/27 **GV** mq/L EPA 8270 09/03 09/27 GV 2-Methylphenol 0.010 U mg/L bis(2-Chloroisopropyl)e 0.010 EPA 8270 09/03 09/27 **GV** U mq/L 09/03 09/27 4-Methylphenol 0.010 Ü EPA 8270 GV mg/L 09/03 09/27 EPA 8270 n-Nitroso-di-n-Propylam 0.010 U mg/L GV 09/03 09/27 EPA 8270 **GV** Hexachloroethane 0.010 Ũ mg/L EPA 8270 09/03 09/27 Nitrobenzene 0.010 U mg/L GV 09/03 09/27 Isophorone 0.010 U mq/L EPA 8270 **GV** 09/03 09/27 2-Nitrophenol 0.010 U EPA 8270 GV mg/L 0.010 EPA 8270 09/03 09/27 **GV** 2,4-Dimethylphenol H mg/LBenzoic Acid 0.010 U mg/L EPA 8270 09/03 09/27 **GV** 09/03 09/27 bis(2-Chloroethoxy)Meth 0.010 П mg/L EPA 8270 GV 2.4-Dichlorophenol 0.010 U mg/L EPA 8270 09/03 09/27 **GV** mg/LEPA 8270 09/03 09/27 **GV** 1,2,4-Trichlorobenzene 0.010 U EPA 8270 09/03 09/27 Naphthalene 0.010 U **GV** mg/L 4-Chloroaniline 0.010 09/03 09/27 EPA 8270 GV IJ mg/L EPA 8270 09/03 09/27 GV Hexachlorobutadiene 0.010 11 mg/L 4-Chloro-3-Methylphenol 0.010 EPA 8270 09/03 09/27 GV IJ mg/L 09/03 09/27 2-Methylnaphthalene 0.010 U EPA 8270 **GV** mg/L 09/03 09/27 **GV** Hexachlorocyclopentadie 0.010 U mq/L EPA 8270 09/03 09/27 EPA 8270 GV 2,4,6-Trichlorophenol 0.010 U mg/L EPA 8270 09/03 09/27 GV 2.4.5-Trichlorophenol 0.010 U mq/L EPA 8270 09/03 09/27 2-Chloronaphthalene 0.010 U GV ma/L





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS DCC

Chemlab Ref.# :93.4426-2 Client Sample ID :LON ST10 SW02

5633 B STR ANCHORAGE, AK 99518 TEL: (907) 562-2343

Matrix	:WATER						FAX: (907) 5	61-5301
2-Nitroani		0.010	U	mg/L	EPA 8270		09/03 09/27	
Dimethylph		0.010	U	mg/L	EPA 8270		09/03 09/27	GV
Acenaphthy		0.010	U	mg/L	EPA 8270		09/03 09/27	GV
2,6-Dinitr		0.010	U	mg/L	EPA 8270		09/03 09/27	GV
3-Nitroani	line	0.010	Ü	mg/L	EPA 8270		09/03 09/27	GV
Acenaphthe		0.010	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
2,4-Dinitr		0.010	U	mg/L	EPA 8270		09/03 09/27	GV
4-Nitrophe		0.010	U	mg/L	EPA 8270		09/03 09/27	
Dibenzofur		0.010	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
2,4-Dinitr		0.010	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Diethylpht		0.010	U	mg/L	EPA 8270		09/03 09/27	GΫ
4-Chloroph	enyl-Phenylet	0.010	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Fluorene		0.010	U	mg/L	EPA 8270		09/03 - 09/27	G <b>V</b>
4-Nitroani		0.010	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
	o-2-Methylphe	0.010	Ü	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
	iphenylamine	0.010	Ü	mg/L	EPA 8270		09/03 09/27	GV
	nyl-Phenyleth	0.010	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Hexachloro		0.010	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
Pentachlor	ophenol	0.010	U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Phenanthre		0.010	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
Anthracene		0.010	U	mg/L	EPA 8270		09/03.09/27	G <b>V</b>
di-n-Butyl		0.010	U	mg/L	EPA 8270		09/03 09/27	
Fluoranthe	ne	0.010	U	mg/L	EPA 8270		09/03 09/27	
Pyrene		0.010	U	mg/L	EPA 8270		09/03 09/27	
Butylbenzy		0.010	U	mg/L	EPA 8270		09/03 09/27	
	robenzidine	0.010	U	mg/L	EPA 8270		09/03 09/27	
Benzo(a)An	thracene	0.010	U	mg/L	EPA 8270		09/03 09/27	
Chrysene		0.010	U	mg/L	EPA 8270		09/03 09/27	
	lhexyl)Phthal	0.010	U	mg/L	EPA 8270		09/03 09/27	
di-n-Octyl		0.010	U	mg/L	EPA 8270		09/03 09/27	
Benzo(b)Fl		0.010	U	mg/L	EPA 8270		09/03 09/27	
Benzo(k)Fl		0.010	U	mg/L	EPA 8270		09/03 09/27	
Benzo(a)Py		0.010	Ü	mg/L	EPA 8270		09/03 09/27	
	.3-cd)Pyrene	0.010	Ü	mg/L	EPA 8270		09/03 09/27	
	)Anthracene	0.010	Ü	mg/L	EPA 8270		09/03 09/27	
Benzo(g,h,	1)Perylene	0.010	U	mg/L	EPA 8270		09/03 09/27	G₹
TOC, Nonpu					EPA 9060	n/a		
TOC Ran		3 <b>3.8</b> -36.5		mg/L	EPA 9060		09/10	
TOC Con	centration	34.8		mg/L	EPA 9060		09/10	CMR
	on-Filterable	16		mg/L	EPA 160.2		09/02 09/02	
Residue,Fi	lterable(TDS)	1300		mg/L	EPA 160.1	500	09/08 09/10	RJK

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than



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ICF ID	LON-ST10-S01	LON-ST10-S01	LON-ST10-S01 1050 ms CAPIGAM soil by 95 8/27/93
F&BI Number	1050	1050 dup	1050 ms ( 4 M
Sample Type	soil	soil	soil by a5
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	97	0/27/33	0/2//00
Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93
Leaded Gas	#0-00/29/93	#0-06/29/93	#0-00/23/33
JP-4	< 50	< 50	
Lube Oil	<100	<100	
Diesel	< 50	<50	80
Spike Level	< 50	< 90	00
Unknown Semi-volatile			
Pentacosane	82	85	102
Sequence Date	02	03	102
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	2-08/28/93, #3&4-08/31	2-08/28/93, #3&4-08/31	2-08/28/93, #3&4-08/31
CCI4	< 0.02	< 0.02	38 outside recovery limits
TCA	< 0.02	< 0.02	83
Benzene	< 0.02	< 0.02	88
TCE	< 0.02	< 0.02	
Toluene	< 0.02	< 0.02	87
PCE	< 0.02	< 0.02	81
Ethylbenzene	< 0.02	< 0.02	77
Xylenes	0.2 丁	< 0.04	74
Gasoline	<2 T	<2	
Spike level	· — •	· <del></del>	1
BFB	100	81	170 outside recovery limit
-· <del>-</del>		<b>.</b>	

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	. 0.1 0.710 001	LON-ST10-2SD02	LON-ST10-2S03
ICF ID	LON-ST10-S01	1767	1772 CAR AN soil 44 95 9/5/93
F&BI Number	1050 msd soil	soil	soil ht as
Sample Type	8/27/93	9/5/93	9/5/93
Date Received	0/27/93	91	96
% Dry Weight	#6-08/29/93	#5-09/06/93	#5-09/06/93
Sequence Date Leaded Gas	#0 00/23/33	# O O O F O O F O O	
JP-4		< 60	< 60
Lube Oil		<120	<120
Diesel	86	< 60	£60<50
Spike Level			
Unknown Semi-volatile			
Pentacosane	101	110	110
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	2-08/28/93, #3&4-08/31/93	}	
CCI4	47 outside limits		
TCA	87		
Benzene	104		
TCE	104		*
Toluene	121		
PCE	119		
Ethylbenzene	113		
Xylenes	109		
Gasoline	1		
Spike level	113		
BFB	110		

ICF ID	LON-ST10-2S03	LON-ST10-2S03	LON-ST10-2S03
F&B! Number	1772 dup	1772 ms	1772 msd
Sample Type	soil	soil	soil
Date Received	9/5/93	9/5/93	9/5/93
% Dry Weight			
Sequence Date	#5-09/06/93	#5-09/06/93	#5-09/06/93
Leaded Gas			
JP-4	< 60		
Lube Oil	< 120		
Diesel	< 60	84	91
Spike Level		500	500
Unknown Semi-volatile			
Pentacosane	68	130	150
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD Endrin Aldahuda			
Endrin Aldehyde DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			
CCI4			
TCA			
Benzene			
TCE			•
Toluene			
PCE			
Ethylbenzene			
Xylenes			
Gasoline			
- Cuocinio			

Spike level

BFB

ICF ID	LON-ST10-2S05	LON-ST10-SD01	LON-ST10-SD02
F&BI Number	1771	1030	ك الكوالي 1024
Sample Type	soil	soil	soil by say
Date Received	9/5/93	8/27/93	8/27/93
% Dry Weight	35	49	65
Sequence Date	#5-09/06/93	#6-08/29/93	#6-08/29/93
Leaded Gas			
JP-4	< 150	< 100	< 80
Lube Oil	<300	< 200	< 150
Diesel	< 150	390 J	2 <del>1</del> 0250J
Spike Level			
Unknown Semi-volatile			
Pentacosane	110	95	90
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level		#3&4-08/31/93	#3&4-08/31/93
Vol Sequence		#3&4-00/31/93 <9.02 <0.04	<0.02<0.5 J
CCI4		<0.02 co.04	<0.02
TCA		0.1 ブ	< <del>0.02</del>
Benzene		< 9.02 c 0.04	l l
TCE		<0.2	<0.02
Toluene		£0.02 60.04	<0.02
PCE Cabulhannana		<0.2	€0.02
Ethylbenzene		< 0.4	<0.2 ≤0.4 V
Xylenes		12 diesel J	80 diesel above curve limit
Gasoline		12 016961 4	35 Globel above dal ve illilit 4
Spike level		99	145
BFB		55	1-10

ICF ID	LON-ST10-SD03	LON-ST10-SD04	لمرر LON-ST10-SD05
F&BI Number	1028	1048	المراجعي 1046
Sample Type	soil	soil	soil Col 41 as
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	81	80	ا 91
Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93
Leaded Gas	0 00,20,00		
JP-4	< 60	< 60	<50
Lube Oil	<120	<130	<110
Diesel	650 T	90 oil <90	< 50
Spike Level	0 <b>00 V</b>	<b>30</b> 311 12	
Unknown Semi-volatile			
Pentacosane	96	92	83
Sequence Date	00	02	
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1242			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/28/93	2-08/28/93, #3&4-08/31	2-08/28/93, #3&4-08/31
CCI4	< 0.02	< 0.02	< 0.02
TCA	< 0.02	< 0.02	<0.02
Benzene	0.1 丁	<0.2 <b>J</b>	<0.02
TCE	< 0.02	< 0.02	< 0.02
Toluene	<0.2	<0.2 丁	< 0.02
PCE	< 0.02	< 0.02	<0.02
Ethylbenzene	< 0.2	<0.2 T	<0.02
Xylenes	< 0.4	<0.4 <b>T</b>	0.1 丁
Gasoline	12 J	180 J	<2 J
Spike level	, <u></u>	.004	- <del>-</del>
BFB	99	200 outside recovery limits	85
טו ט	55	200 outside recovery milits	55

ICF ID	LON-ST10-SD06	LON-ST10-SD07	LON-ST10-2SD08 1768	
F&BI Number	1052	1026 soil	soil	CAMA
Sample Type	soil	8/27/93	9/5/93	₽7
Date Received	8/27/93	44	77	1
% Dry Weight	88	#6-08/29/93	#5-09/06/93	
Sequence Date	#6-08/29/93	#0-00/29/93	#3 03/00/30	
Leaded Gas	<b>.</b> 60	<110	< 70	
JP-4	<60	<230	<140	
Lube Oil	<110	900 J	< 70	
Diesel	<60	300 V	<b>170</b>	
Spike Level				
Unknown Semi-volatile	84	109	110	
Pentacosane Carriago Data	84	100		
Sequence Date				
PCB 1221				
PCB 1232 PCB 1016				
PCB 1010				
PCB 1248				
PCB 1246 PCB 1254				
PCB 1260				
Spike Level				
Dibutyl Chlorendate				
Sequence Date				
alpha-BHC				
beta-BHC				
gamma-BHC				
delta-BHC				
Heptachlor				
Aldrin				
Heptachlor Epoxide				
Endosulfan I				
DDE				
Dieldrin				
Endrin				
Endosulfan II				
DDD				
Endrin Aldehyde				
DDT				
Endosulfan Sulfate				
Endrin Ketone				
Methoxy Chlor				
Chlordane				
Dibutyl Chlorendate				
Spike Level				
Vol Sequence	2-08/28/93, #3&4-08/31			
CCI4	< 0.02	<0.02 co.04		
TCA	< 0.02	<0.02 40.04		
Benzene	< 0.02	10.2 40.4		
TCE	< 0.02	€0.02 60.04 €0.02 60.4		
Toluene	< 0.02	<0.02 60.04		
PCE	< 0.02			
Ethylbenzene	< 0.02	<0.2 (0.4		
Xylenes	0.1 ブ	<0.4 ∠0.8		
Gasoline	<2 J	130 diesel J		
Spike level	407	140		
BFB	107	140		

	ICF ID	LON-ST10-2SD09	LON-ST10-SW01	LON-ST10-SW01	
	F&BI Number	1770	1054 water	1056 water <i>(</i> :	آمد
	Sample Type	soil 9/5/93	8/27/93	212-122	30°
	Date Received % Dry Weight	81	0/27/33	0/27/33	11
ı	Sequence Date	#5-09/06/93	#5-08/30/93		
,	Leaded Gas	#3-03/00/33	#3 00/30/30		
	JP-4	< 70	< 200		
	Lube Oil	<140	<2000		
	Diesel	£70260	<200 < 10005		
	Spike Level	~~~			
	Unknown Semi-volatile				
	Pentacosane	120	37 outside recovery limits		
	Sequence Date				
	PCB 1221				
	PCB 1232				
	PCB 1016				
	PCB 1242				
	PCB 1248				
	PCB 1254				
	PCB 1260				
	Spike Level				
	Dibutyl Chlorendate				
	Sequence Date				
	alpha-BHC				
	beta-BHC				
	gamma-BHC				
	delta-BHC				
:	Heptachlor Aldrin				
	Heptachlor Epoxide				
	Endosulfan I				
	DDE				
	Dieldrin				
	Endrin				
	Endosulfan II				
	DDD				
	Endrin Aldehyde				
	DDT				
	Endosulfan Sulfate				
	Endrin Ketone				
	Methoxy Chlor				
	Chlordane				
	Dibutyl Chlorendate				
	Spike Level			"4.0.0.00.00.00	
	Vol Sequence	#1&2-09/07/93		#1&2-08/28/93	
	CCI4	< 0.2		<1	
	TCA	< 0.2		<1 47 J	
	Benzene	< 0.02		<1	
	TCE Toluene	<0.2 <0.02		<1 <3 丁	
	PCE	<0.2		<b>2</b> 3 J <1	
		< 0.02		43 T	
	Ethylbenzene Xylenes	< 0.02		(9 J	
	Gasoline	<1J		<50 <b>丁</b>	
	Spike level	\		7304	
	BFB	97		114	
		57		117	

ICF ID	LON-ST10-SW02	LON-ST10-SW02
F&BI Number	1058	1060
Sample Type	water	water
Date Received	8/27/93	8/27/93
% Dry Weight		
Sequence Date	#5-08/30/93	
Leaded Gas		
JP-4	< 200	
Lube Oil	<2000	
	<20041000J	
Diesel	>200@10004	
Spike Level		
Unknown Semi-volatile	10 - told recovery limits	
Pentacosane	40 outside recovery limits	
Sequence Date		
PCB 1221		
PCB 1232		
PCB 1016		
PCB 1242		
PCB 1248		
PCB 1254		
PCB 1260		
Spike Level		
Dibutyl Chlorendate		
Sequence Date		
alpha-BHC		
beta-BHC		
gamma-BHC		
delta-BHC		
Heptachlor		
Aldrin		
Heptachlor Epoxide		
Endosulfan l		
DDE		
Dieldrin		
Endrin		
Endosulfan II		
DDD		
Endrin Aldehyde		
DDT		
Endosulfan Sulfate		
Endrin Ketone		
Methoxy Chlor		
Chlordane		
Dibutyl Chlorendate		
Spike Level		
Vol Sequence		#1&2-08/28/93
CCI4		<1
		<1
TCA		<1
Benzene		<1
TCE		<1
Toluene		· •
PCE		<1
Ethylbenzene		<1 _
Xylenes		4 J
Gasoline		<50 ブ
Spike level		
BFB		110

Confiled by 5-95 ANALYTICAL DATA SHEETS FOR THE INACTIVE LANDFILL (LF11)/ VEHICLE STORAGE AREA (SS14)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.#

:93.4425-5 Client Sample ID :LON-LF11-S03

Matrix

:SOIL

5833 B STREET ANCHORAGE AK 99518 TEL: 19071 562-23-3 FAX (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS :DEW LINE

Project#

:LONELY

PWSID

:UA

WORK Order

Report Completed :10/27/93

Collected Received

:08/26/93

:70211

@ 15:15 hrs :08/29/93 @ 12:45 hrs

Technical Director: STEPHENY C. EDE

Released By :

B 11.

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P/Z. LID

CRACKED ON VOA CONTAINER. B = THIS FLAG IS USED WHEN THE ANALYTE IS

FOUND IN THE ASSOCIATED BLANK AS WELL AS IN THE SAMPLE.

					(enalyers)	עונינונונט		
Parameter	Results	QC QC	linita	Method	wabit Limits	Date	Anal Date	Init
 . aldmeter	results	Quai	011112	nethod	 PIMIC2	Date	Date	11111
Volatile Organics				EPA 8260				
Benzene	0.020	U	mg/Kg	EPA 8260 ( )	') - A.1	08/30	09/13	KWM
Bromobenzene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Bromochloromethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Bromodichloromethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Bromoform	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWH
 Bromomethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
n-Butylbenzene	0.020	U	mg/Kg	EPA 8260	}	08/30	09/13	KWM
sec-Butylbenzene	0.020	บ	mg/Kg	EPA 8260		08/30	09/13	KWM
tert-Butylbenzne	0.020	U	mg/Kg	EPA 8260	1	08/30	09/13	KWM
Carbon Tetrachloride	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Chlorobenzene	0.020	บ	mg/Kg	EPA 8260		08/30	09/13	KWM
Chloroethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Chloroform	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Chloromethane	0.020	บ	mg/Kg	EPA 8260			09/13	KWM
2-Chlorotoluene	0.020	ប	mg/Kg	EPA 8260		08/30	09/13	KWM
4-Chlorotoluene	0.020	U	mg/Kg	EPA 8260	Ì	08/30	09/13	KWM
Dibromochloromethane	0.020	U	mg/Kg	EPA 8260	1	08/30	09/13	KWM
12Dibromo3Chloropropane	0.020	U	mg/Kg	EPA 8260			09/13	KWM
1,2-Dibromoethane	0.020	U	mg/Kg	EPA 8260	•	08/30	09/13	KWH
Dibromomethane	0.020	U	mg/Kg	EPA 8260	· ·	08/30	09/13	KWM
1,2-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,3-Dichlorobenzene	0.020	บ	mg/Kg	EPA 8260	i	08/30	09/13	KWM
1,4-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260	i	08/30	09/13	KWH
Dichlorodifluoromethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,1-Dichloroethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWH
1,2-Dichloroethane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,1-Dichloroethene	0.020	U	mg/Kg	EPA 8260	!	08/30	09/13	KWM
cis-1,2-Dichloroethene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWH
trans1,2-Dichloroethene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWH
1,2-Dichloropropane	0.020	ប	mg/Kg	EPA 8260		08/30	09/13	KWM
1,3-Dichloropropane	0.020	บ	mg/Kg	EPA 8260	•	08/30	09/13	KWM
2,2-Dichloropropane	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
1,1-Dichloropropene	0.020	U	mg/Kg	EPA 8260		08/30	09/13	KWM
Ethylbenzene	0.020	บ	mg/Kg	EPA 8260		08/30	09/13	KWM
Hexachlorobutadiene	0.020	U	mg/Kg	EPA 8260 <	1	08/30	09/13	KWM





# COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

5 % DE - 90 d		PEP	ORT of ANAI	YSTS		
Chemlab Ref.# :93.4425-5 Client Sample ID :LON-LF11-S03		1	JINI OI ANA	31010	A . 1	5633 B STREET  ANCHORAGE, AK 99518  TEL: (907) 562-2343
Matrix :SOIL					. mayeurs/	BUYNINGS FAX (907) 561-5301
•						
Isopropylbenzene	0.020	Ü	mg/Kg		826C (3)-A.I	08/30 09/13 KWI
p-Isopropyltoluene Methylene Chloride	0.020	บ บ	mg/Kg		8260 8260	08/30 09/13 KWP 08/30 09/13 KWP
Napthalene	0.020	บ	mg/Kg mg/Kg		8260	08/30 09/13 KWP
n-Propylbenzene	0.020	Ü	mg/Kg		8260	08/30 09/13 KW
Styrene	0.020	ŭ	mg/Kg		8260	08/30 09/13 KWP
1112-Tetrachloroethane	0.020	Ŭ	mg/Kg		8260	08/30 09/13 KWM
1122-Tetrachloroethane	0.020	U	mg/Kg		8260	08/30 09/13 KWM
Tetrachloroethene	0.020	U	mg/Kg		8260	08/30 09/13 KWM
Toluene	0.020	U	mg/Kg		8260	08/30 09/13 KWM
1,2,3-Trichlorobenzene	0.020	U	mg/Kg		8260	08/30 09/13 KWM
1,2,4-Trichlorobenzene	0.020	U	mg/Kg		8260	08/30 09/13 KWP
1,1,1-Trichloroethane	0.020	U	mg/Kg		8260	08/30 09/13 KWM
1,1,2-Trichloroethane Trichloroethene	0.020	U U	mg/Kg		8260   8260	08/30 09/13 KWM 08/30 09/13 KWM
Trichlorofluoromethane	0.020	Ü	mg/Kg mg/Kg		8260	08/30 09/13 KWM
1,2,3-Trichloropropane	0.020	บ	mg/Kg		8260	08/30 09/13 KWM
1,2,4-Trimethylbenzene	0.020	Ü	mg/Kg		8260	08/30 09/13 KWM
1,3,5-Trimethylbenzene	0.020	_	mg/Kg		8260	08/30 09/13 KWM
Vinyl Chloride	0.020	U	mg/Kg		8260	08/30 09/13 KWM
p+m-Xylene	0.020	U	mg/Kg		8260	08/30 09/13 <u>K</u> WM
o-Xylene	0.020	U	mg/Kg	EPA	8260 💎	08/30 09/13 AM
Comiumintile Commiss				— ·	0270	
Semivolatile Organics Phenol	0.220	* 1	/V-		1 8270 1 8270(ゴ)-A . I	09/13 10/21 GV
bis(2-Chloroethyl)ether	0.220	U U	mg/Kg mg/Kg		8270 ) A.I	09/13 10/21 GV 09/13 10/21 GV
2-Chlorophenol	0.220		mg/Kg		8270	09/13 10/21 GV
1,3-Dichlorobenzene	0.220		mg/Kg		8270	09/13 10/21 GV
1,4-Dichlorobenzene	0.220		mg/Kg		8270	09/13 10/21 GV
Benzyl Alcohol	0.220		mg/Kg		8270	09/13 10/21 GV
1,2-Dichlorobenzene	0.220		mg/Kg		8270	09/13 10/21 GV
2-Methylphenol	0.220		mg/Kg		8270	09/13 10/21 GV
bis(2-Chloroisopropyl)e	0.220		mg/Kg		8270	09/13 10/21 GV
4-Methylphenol	0.220		mg/Kg		8270 8270	09/13 10/21 GV 09/13 10/21 GV
n-Nitroso-di-n-Propylam Hexachloroethane	0.220		mg/Kg		8270	09/13 10/21 GV 09/13 10/21 GV
Nitrobenzene	0.220		mg/Kg mg/Kg		8270	09/13 10/21 GV
Isophorone	0.220		mg/Kg		8270	09/13 10/21 GV
2-Nitrophenol	0.220		ng/Kg		8270	09/13 10/21 GV
2,4-Dimethylphenol	0.220		mg/Kg		8270	09/13 10/21 GV
Benzoic Acid	0.220		mg/Kg		8270	09/13 10/21 GV
bis(2-Chloroethoxy)Meth	0.220		mg/Kg		8270	09/13 10/21 GV
2,4-Dichlorophenol	0.220		mg/Kg		8270	09/13 10/21 GV
1,2,4-Trichlorobenzene	0.220		mg/Kg		8270	09/13 10/21 GV
Naphthalene 4-Chloroaniline	0.220		mg/Kg		A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8270   A 8	09/13 10/21 GV 09/13 10/21 GV
Hexachlorobutadiene	0.220		mg/Kg mg/Kg		8270	09/13 10/21 GV 09/13 10/21 GV
4-Chloro-3-Methylphenol	0.220		mg/Kg		8270	09/13 10/21 GV
2-Methylnaphthalene	0.220		mg/Kg		9270	00/12/10/21 (7)
Hexachlorocyclopentadie	0.220		mg/Kg		8270	09/13 10/21
2,4,6-Trichlorophenol	0.220		mg/Kg		A 8270 V 15.0	09/13 10/21
					\$ 3.1	
					8270 V 8270 V 8270 V 8-1-91	Compiled: SMF 11.1694
					10-1-77	Compiled: SMT
					Ψ	11.16.94
<b>MACE</b>	ᅠ				<b></b>	11 10 -1

# AL.

# COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

2E 326	_	REP	ORT of ANAI	LYSIS				5533 D CT	DEET
Chemlab Ref.# :93.4425-5					,	a . /a .	ANCHO	5633 B ST DRAGE, AK	99518
Client Sample ID :LON-LF11-	-503	_	•		(	Justiliai //	∠_ TE	EL: (907) 562 AX. (907) 561	2.2343
Matrix :SOIL		Du	able Com	u I		marger / Onn	Jul D'	VV. 1907) 201	1.5301
2,4,5-Trichlorophenol	0.220	Ü	alifer Com	WM FPA	8270 (	J) A 1	09/13	10/21	GV
2-Chloronaphthalene	0.220	บ	mg/Kg		8270	0) M. 1	09/13		GV
2-Nitroaniline	0.220	_	mg/Kg		8270		09/13		GV
Dimethylphthalate	0.220	บั	mg/Kg		8270		09/13		GV
Acenaphthylene	0.220		mg/Kg		8270		09/13		GV
2.6-Dinitrotoluene	0.220		mg/Kg		8270		09/13		GV
3-Nitroaniline	0.220		mg/Kg		8270		09/13		GV
Acenaphthene	0.220		mg/Kg		8270		09/13		GV
2,4-Dinitrophenol	0.220		mg/Kg		8270		09/13		GV
4-Nitrophenol	0.220		mg/Kg		8270		09/13		GV
Dibenzofuran	0.220		mg/Kg		8270		09/13		GV
2,4-Dinitrotoluene	0.220		mg/Kg		8270		09/13		σv
Diethylphthalate	0.220		mg/Kg		8270		09/13		GV
4-Chlorophenyl-Phenylet	0.220		mg/Kg		8270			10/21	GV
Fluorene	0.220		mg/Kg		8270		09/13	10/21	<b>GV</b>
4-Nitroaniline	0.220		mg/Kg		8270			10/21	GV
4,6-Dinitro-2-Methylphe	0.220		mg/Kg		8270		09/13	10/21	<b>GV</b>
n-Nitrosodiphenylamine	0.220	U	mg/Kg	EPA	8270		09/13	10/21	<b>GV</b>
4-Bromophenyl-Phenyleth	0.220	U	mg/Kg	EPA	8270		09/13	10/21	<b>GV</b>
Hexachlorobenzene	0.220		mg/Kg	EPA	8270		09/13	10/21	G <b>V</b>
Pentachlorophenol	0.220	U	mg/Kg	EPA	8270		09/13	10/21	<b>GV</b>
Ph <b>e</b> nanthrene	0.220	υ	mg/Kg	EPA	8270	4		10/21	GV
nthracene	0.220		mg/Kg	EPA	8270		09/13	10/21	<b>GV</b>
i-n-Butylphthalate	2.82		mg/Kg			(U)-E.1(J)A.1		10/21	<b>GV</b>
Fluoranthene	0.220		mg/Kg		. 82 <b>7</b> 0 į̇̃	かール.1		10/21	<b>GV</b>
Pyrene	0.220		mg/Kg		8270°	i		10/21	GV
Butylbenzylphthalate	0.220		mg/Kg		8270			10/21	<b>GV</b>
3,3-Dichlorobenzidine	0.220		mg/Kg		8270	1		10/21	GV
Benzo(a)Anthracene	0.220		mg/Kg		8270			10/21	G <b>V</b>
Chrysene	0.220		mg/Kg		8270			10/21	G <b>V</b>
bis(2-Ethylhexyl)Phthal	0.220		mg/Kg		8270			10/21	G <b>V</b>
di-n-Octylphthalate	0.220		mg/Kg		8270			10/21	G <b>V</b>
Benzo(b)Fluoranthene Benzo(k)Fluoranthene	0.220		mg/Kg		8270 8270			10/21 10/21	G <b>V</b>
	0.220 0.220		mg/Kg		8270			10/21	G <b>V</b>
Benzo(a)Pyrene Indeno(1,2,3-cd)Pyrene	0.220		mg/Kg mg/Kg		8270			10/21	G <b>V</b>
Dibenz(a,h)Anthracene	0.220		mg/Kg		8270			10/21	G <b>V</b>
Benzo(g,h,i)Perylene	0.220				8270	7		10/21	GV
benzo(g,n, 1)1 er yrene	0.220	Ü	mg/ r/g	ш.n	02100	4	03/13	10/21	3.
Sample Preparation				EPA 30	50 Dia	est			
Total Metals Analysis									
ICP Screen, ICF					EPA	n/a			
Aluminum	4300		mg/Kg	EPA	6010		09/02	09/14	DFL
Antimony	53	U	J mg/KgJ.	2 EPA	6010			09/14	DFL
Arsenic	53	U	mg/Kg	EPA	6010			09/14	DFL
Barium	110		mg/Kg		6010		09/02	09/14	DFL
Beryllium	27	บ	mg/Kg	EPA	6010	**	09/02	09/14	DFL
Cadmium	2.7	U	mg/Kg	EPA	6010		09/02	09/14	DFL
Calcium	50000		mg/Kg	EPA	6010		09/02	09/14	DFL
Chromium	9.0		J mg/Kg 6.1	EPA	6010			09/14	DFL
Cobalt	5.3	U		EPA	6010		09/02	09/14	DEL
			o maind chan	ngesby:					
			original da	1,5/94		99 -94 3-15			
			٠٠٠٠		C	ا آر ک ^{ر سو}		Com	uld.
					-	3 ( ¹ °		001134	Sul
(a) C	6 <b>65</b> Me							(	ichd: 8mf 11.16.94
	Mei	moer	of the SGS Grou	p (Societé	Generale	de Surveillance)			11.16.97



ENVIRONMENTAL LABORATORY SERVICES

5 NG\$ (90s)	REPOR	T of ANALYSIS			
Client Sample ID :LON-	4425-5 -LF11-S03			5633 B STF ANCHORAGE, AK 9 TEL: (907) 562- FAX: (907) 561-	9518 -2343
Matrix :SOII	Chelif	ier Comment		FAX (907) 561	.5301
Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium	12000 5.3 U 29000 130 2.7 U 6.9 410 J 5.3 U 2.7 UJ 320 J	mg/Kg EPA mg/Kg EPA mg/Kg EPA mg/Kg EPA mg/Kg EPA mg/Kg EPA mg/Kg EPA mg/Kg EPA mg/Kg LPA mg/Kg EPA mg/Kg EPA mg/Kg EPA	6010 6010 6010 6010 6010 6010 6010 6010	09/02 09/14 09/02 09/14 09/02 09/14 09/02 09/14 09/02 09/14 09/02 09/14 09/02 09/14 09/02 09/14 09/02 09/14 09/02 09/14 09/02 09/14	DFL DFL DFL DFL DFL DFL DFL DFL KAW
Thallium Vanadium Zinc	0.26 U 23 14	mg/Kg EPA	7841 6010 6010	09/02 09/14 09/02 09/14	DFL

All chays s. ~ 2/16/94

See Special Instructions Above

** See Sample Remarks Above

 $\mathtt{U}=\mathtt{U}$  undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than







ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4428-1

Client Sample ID :LON LF11 SW01

Matrix

:WATER

Client Name Ordered By

:ICF KAISER ENGINEERING :RAY MORRIS

Project Name : DEW LINE Project#

:LONELY

PWSID

:UA

WORK Order :70217

Report Completed :09/29/93

Collected

:08/26/93 @ 14:00 hr: Received :08/29/93 @ 12:45 hr:

5633 B STREET

TEL: (907) 562-2343 FAX: (907) 561-5301

ANCHORAGE, AK 99518

Technical Director: STEPHEN C. EDE

Released By : State ! 9/1

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER J.J., AND S.S.

<u>-</u>	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.0010	U	mg/L	EPA 8260		00/02	09/03	KWI
	Bromobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWI
	Bromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	K <b>Wi</b>
	Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	
	Bromoform	0.0010	U	mg/L	EPA 8260			09/03	K <b>wi</b> K <b>wi</b>
	Bromomethane	0.0010	U	mg/L	EPA 8260			09/03	KWE
	n-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWE.
	sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWE
	tert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03		KWE
	Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260			09/03	KWK
	Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWE
	Chloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Chloroform	0.0010	Ū	mg/L	EPA 8260		09/03		KWM
	Chloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		KWH
	4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Dibromochloromethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Dichlorodifluoromethane	0.0010	U	mg/Ľ	EPA 8260		09/03		KWM
	1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,2-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
	trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
	1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
	1,3-Dichloropropane	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	KWM
	2,2-Dichloropropane	0.0010	Ŭ	mg/L	EPA 8260		09/03	09/03	KWM
	1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260	·1.	09/03		KWM
	Ethylbenzene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	Hexachlorobutadiene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Chemlab Ref.# :93.4428-1 Client Sample ID :LON LF11 SW01

Matrix : WATER				(301) 301-3.	J
Methylene Chloride	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWI
Napthalene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWI
n-Propylbenzene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWE
Styrene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWP.
1112-Tetrachloroethane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWK.
1122-Tetrachloroethane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
Tetrachloroethene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
Toluene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
1,2,3-Trichlorobenzene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
1,2,4-Trichlorobenzene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
1,1,1-Trichloroethane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
1,1,2-Trichloroethane	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
Trichloroethene	0.0010 U	mg/L	EPA 8260	09/03 09/ <b>03</b>	KWM
Trichlorofluoromethane	0.0010 U	٠. ٠	EPA 8260	09/03 09/03	KWM
1,2,3-Trichloropropane	0.0010 U	٠.	EPA 8260	09/03 09/03	KWM
1,2,4-Trimethylbenzene	0.0010 U	·	EPA 8260	09/03 09/03	KWM
1,3,5-Trimethylbenzene	0.0010 U	٥.	EPA 8260	09/03 09/03	KWM
Vinyl Chloride	0.0010 U	··· _ · ·	EPA 8260	09/03 09/03	KWM
p+m-Xylene	0.0010 U		EPA 8260	09/03 09/03	KWM
o-Xylene	0.0010 U	mg/L	EPA 8260	09/03 09/03	KWM
Semivolatile Organics			EPA 8270		_
Phenol	0.020 U	mg/L	EPA 8270	09/02 09/25	
bis(2-Chloroethyl)ether		m <b>g/L</b>	EPA 8270	0 <b>9/0</b> 2 09 <b>/25</b>	10-4
2-Chlorophenol	0 <b>.020</b> U		EPA 8270	09/02 09/25	MTT
1,3-Dichlorobenzene	0. <b>020</b> U		EPA 8270	09/02 09/25	MTT
1,4-Dichlorobenzene	0.020 U		EPA 8270	09/02 09/25	MTT
Benzyl Alcohol	0.020 U		EFA 8270	09/02 09/25	MTT
1,2-Dichlorobenzene	0.020 U	J	EPA 8270	09/02 09/25	HTT
2-Methylphenol	0.020 U	,	EPA 8270	09/02 09/25	MTT
bis(2-Chloroisopropyl)e		ے, _	EPA 8270	09/02 09/25	HTT
4-Methylphenol	0.020 U	-	EPA 8270	09/02 09/25	MTT
n-Nitroso-di-n-Propylam		ے,	EPA 8270	09/02 09/25	MTT
Hexachloroethane	0.020 U		EPA 8270	09/02 09/25 09/02 09/25	MTT
Nitrobenzene	0.020 U		EPA 8270 EPA 8270	09/02 09/25	MTT
Isophorone	0.020 U 0.020 ป	٠.	EPA 8270	09/02 09/25	MTT
2-Nitrophenol	0.020 U		EPA 8270	09/02 09/25	HTT
2,4-Dimethylphenol	0.020 U		EPA 8270	09/02 09/25	HTT
Benzoic Acid bis(2-Chloroethoxy)Meth			EPA 8270	09/02 09/25	HTT
2,4-Dichlorophenol	0.020 U	_	EPA 8270	09/02 09/25	MTT
1,2,4-Trichlorobenzene	0.020 U		EPA 8270	09/02 09/25	MTT
Naphthalene	0.020		EPA 8270	09/02 09/25	HTT
4-Chloroaniline	0.020 U		EPA 8270	09/02 09/25	MTT
Hexachlorobutadiene	0.020 U	_	EPA 8270	09/02 09/25	MTT
4-Chloro-3-Methylphenol			EPA 8270	09/02 09/25	MTT
2-Methylnaphthalene	0.020 t		EPA 8270	09/02 09/25	MTT
Hexachlorocyclopentadie			EPA 8270	09/02 09/25	MTT
2,4,6-Trichlorophenol	0.020		EPA 8270	09/02 09/25	MTT
2,4,5-Trichlorophenol	0.020 U	_	EPA 8270	09/02 09/25	MTT
2-Chloronaphthalene	0.020		EPA 8270	09/02 09/25	
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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET Chemlab Ref.# :93.4428-1 ANCHORAGE, AK 99518 Client Sample ID :LON LF11 SW01 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER 2-Nitroaniline 0.020 U EPA 8270 mq/L 09/02 09/25 MTI Dimethylphthalate 0.020 U EPA 8270 mg/L 09/02 09/25 MTI Acenaphthylene 0.020 U EPA 8270 mg/L 09/02 09/25 MTT 2.6-Dinitrotoluene 0.020 EPA 8270 U mg/L 09/02 09/25 MTI 3-Nitroaniline 0.020 U mq/L EPA 8270 09/02 09/25 MTI Acenaphthene 0.020 U mq/L EPA 8270 09/02 09/25 MTI 2,4-Dinitrophenol 0.020 U mq/L EPA 8270 09/02 09/25 MTI 4-Nitrophenol 0.020 mg/L U EPA 8270 09/02 09/25 MTI Dibenzofuran 0.020 U EPA 8270 mg/L 09/02 09/25 MTT 2,4-Dinitrotoluene 0.020 U mg/L EPA 8270 09/02 09/25 MTT Diethylphthalate 0.020 U mg/L EPA 8270 09/02 09/25 MTT 4-Chlorophenyl-Phenylet 0.020 [] EPA 8270 mg/L 09/02 09/25 MTT Fluorene 0.020 EPA 8270 09/02 09/25 U mg/L MTT 4-Nitroaniline 0.020 09/02 09/25 [] mg/L EPA 8270 MTT 4,6-Dinitro-2-Methylphe 0.020 U EPA 8270 09/02 09/25 mg/L MTT n-Nitrosodiphenylamine 0.020 mg/L EPA 8270 09/02 09/25 MTT 4-Bromophenyl-Phenyleth 0.020 mg/L EPA 8270 09/02 09/25 MTT Hexachlorobenzene 0.020 mg/L U EPA 8270 09/02 09/25 MTT Pentachlorophenol 0.020 mg/L EPA 8270 11 09/02 09/25 MTT Phenanthrene 0.020 EPA 8270 U mg/L 09/02 09/25 MTT Anthracene 0.020 IJ mg/L EPA 8270 09/02 09/25 MTT di-n-Butylphthalate 0.020 EPA 8270 U mg/L 09/02 09/25 MTT Fluoranthene 0.020 EPA 8270 U mg/L 09/02 09/25 MTT 0.020 Pyrene U mg/L EPA 8270 09/02 09/25 MTT Butylbenzylphthalate 0.020 EPA 8270 U mg/L 09/02 09/25 MTT 3,3-Dichlorobenzidine 0.020 U mg/L EPA 8270 09/02 09/25 MTT Benzo(a)Anthracene 0.020 U mq/L EPA 8270 09/02 09/25 MTT Chrysene 0.020 U mq/L EPA 8270 09/02 09/25 MTT bis(2-Ethylhexyl)Phthal EPA 8270 0.020 U mg/L 09/02 09/25 MTT di-n-Octylphthalate 0.020 mg/L U EPA 8270 09/02 09/25 MTT Benzo(b)Fluoranthene 0.020 U EPA 8270 mg/L 09/02 09/25 MTT Benzo(k)Fluoranthene 0.020 U mq/L EPA 8270 09/02 09/25 MTT Benzo(a)Pyrene 0.020 U mg/L EPA 8270 09/02 09/25 MTT 0.020 Indeno(1,2,3-cd)Pyrene EPA 8270 U mg/L 09/02 09/25 MTT Dibenz(a,h)Anthracene 0.020 U EPA 8270 mg/L 09/02 09/25 MTT Benzo(g,h,i)Perylene 0.020 U EPA 8270 mg/L 09/02 09/25 MTT Total Metals Analysis ICP Screen, ICF EPA n/a Aluminum 0.10 U mg/L EPA 6010 09/07 09/10 DLG Antimony 0.10 U EPA 6010 09/07 09/10 mg/L DLG Arsenic 0.10 U EPA 6010 mq/L 09/07 09/10 DLG Barium 0.35 mq/L EPA 6010 09/07 09/10 DLG Beryllium 0.050 U mg/L EPA 6010 09/07 09/10 DLG Cadmium 0.050 U mg/L EPA 6010 09/07 09/10 DLG Calcium EPA 6010 97 mg/L 09/07 09/10 DLG 0.050 U Chromium mg/L EPA 6010 09/07 09/10 DLG Cobalt 0.10 U mg/L EPA 6010 09/07 09/10 DLG Copper 0.050 U EPA 6010 mg/L 09/07 09/10 DLG Iron 1.5 EPA 6010 mg/L 09/07 09/10 DLG Lead 0.10 U EPA 6010 mg/L 09/07 09/10 DLG



**SGS** Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

S.NCE 1908		RFPC	ORT OF ANA	LYSIS XXX		5633 B ST	REET
Chemlab Ref.# :93.4428-1	1		in or him			ANCHORAGE, AK	9518
Client Sample ID :LON LF11				<u>^</u> .	/^	/ TEL: (907) 562	.2343
Matrix :WATER	DRUI			(Suntil	11.1/1/2	FAX: (907) 561	-5301
HGCIIA .HAILI				- Lange	Jekining	ر نائب	
Magnesium	41		mg/L	EPA 6010	/	09/07 09/10	DLC
Manganese	0.22		mg/L	EPA 6010		09/07 09/10	DLC
	0.050	U		EPA 6010		09/07 09/10	DLC
Molybdenum			mg/L	EPA 6010		09/07 09/10	DLC
Nickel	0.050	U	mg/L			09/07 09/10	DLC
Potassium	5.7		mg/L	EPA 6010		09/07 09/10	DLC
Selenium	0.10	U	mg/L	EPA 6010	<b>*</b>	09/07 09/10	DLC
Silver	0.050	U	mg/L	EPA 6010(J)-3	J . I	09/07 09/10	DLG
Sodium	63		mg/L	EPA 6010			BMK
Thallium	0.005	Ü	mg/L	EPA 7841		09/06 09/08	
Vanadium	0.050	U	mg/L	EPA 6010		09/07 09/10	DLC
Zinc	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Dissolved Metals Analys							
ICP Screen, ICF				EPA	n/a		51.6
Aluminum	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG
Antimony	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG
Arsenic	0.10	Ü	mg/L	EPA 6010		09/07 09/10	DLG
Barium	0.35		mg/L	EPA 6010		09/07 09/10	DLG
Beryllium	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Cadmium	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Calcium	97		mg/L	EPA 6010		09/07 09/10	DLG
Chromium	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Cobalt	0.10	Ū	mg/L	EPA 6010		09/07 09/10	
Copper	0.050	Ū	mg/L	EPA 6010		09/07 09/10	
	0.42	Ŭ	mg/L	EPA 6010		09/07 09/10	DLG
Iron	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG
Lead	40	U	mg/L	EPA 6010		09/07 09/10	DLG
Magnesium			_	EPA 6010		09/07 09/10	DLG
Manganese	0.20		mg/L			09/07 09/10	DLG
Molybdenum	0.050	Ü	mg/L	EPA 6010			DLG
Nickel	0.050	U	mg/L	EPA 6010		09/07 09/10	
Potassium	5.0	U	mg/L	EPA 6010		09/07 09/10	DLG
Selenium	0.10	U	mg/L	EPA 6010		09/07 09/10	DLG
Silver	0 <b>.050</b>	U	mg/L	EPA 6010		09/07 09/10	DLG
Sodium	64		mg/L	EPA 6010		09/07 09/10	DLG
Thallium	0.005	U	mg/L	EPA 7841		09/06 09/08	BMW
Vanadium	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
Zinc	0.050	U	mg/L	EPA 6010		09/07 09/10	DLG
TOC, Nonpurgable				EPA 9060	n/a		
TOC Range	27.4-28.5		mg/L	EPA 9060		09/08	CMR
TOC Concentration	28.1		mg/L	EPA 9060		09/08	CMR
- <del> </del>			•				
Residue. Non-Filterable	5		mg/L	EPA 160.2		09/02 09/02	GPP
Residue, Filterable (TDS)	768		mg/L	EPA 160.1	500	09/10	RJK

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than



See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.



**ENVIRONMENTAL LABORATORY SERVICES** 

nlab Ref.# :93.4428- Crient Sample ID :LON LF11 Matrix :WATER	1	EPORT of ANALYS			5633 B STR ANCHORAGE, AK 99 TEL, (907) 562-4 FAX: (907) 561-9	9518 2343
Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	0.050 5.7 0.10 0.050 63 0.005 0.050	mg/L mg/L U mg/L mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L	EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 7841 EPA 6010 EPA 6010		09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/06 09/08 09/07 09/10 09/07 09/10	DLG DLG DLG DLG DLG DLG DLG DLG DLG DLG
Dissolved Metals Analys ICP Screen, ICF Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper ron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	0.10 0.10 0.35 0.050 0.050 0.10 0.050 0.42 0.10 40 0.20 0.050 0.050 0.10 0.050 0.10 0.050	U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L	EPA EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010	n/a	09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10 09/07 09/10	DLG DLG DLG DLG DLG DLG DLG DLG DLG DLG
TOC, NonpurgableTOC RangeTOC Concentration	27.4-28.5 28.1	mg/L mg/L	EPA 9060 EPA 9060 EPA 9060	n/a	09/08 09/08	CMR CMR
Residue, Non-Filterable Residue, Filterable (TDS)	5 76 <b>8</b>	mg/L mg/L	EPA 160.2 EPA 160.1	500	09/02 09/02 09/10	GPP RJK

See Sample Remarks Above

Undetected, Reported value is the practical quantification limit.

v = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above

ICF ID F&BI Number	LON-LF11-S01 946	LON-LF11-S01 946 dup	LON-LF11-S01 946 ms	Cori
Sample Type	soil	soil	soil	
Date Received	8/27/93	8/27/93	8/27/93	<i>b</i> ,
% Dry Weight	95		"0 00 100 100	
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93	
Leaded Gas		.50		
JP-4	< 50	<50 <100		
Lube Oil	< 100		92	
Diesel	< 50	< 50	500	
Spike Level			300	
Unknown Semi-volatile	0.1	106	108	
Pentacosane	91 #6-08/28/93	#6-08/28/93	#6-08/28/93	
Sequence Date		*0-08/20/33 <0.1	110 00120100	
PCB 1221	<0.1	<0.1		
PCB 1232	<0.1	< 0.1		
PCB 1016	<0.1	< 0.1		
PCB 1242	<0.1	< 0.1		
PCB 1248	< 0.1	< 0.1	99	
PCB 1254	< 0.1	<0.1	33	
PCB 1260	< 0.1	< 0.1	10	
Spike Level	0.4	106	109	
Dibutyl Chlorendate	91	100	100	
Sequence Date				
alpha-BHC				
beta-BHC				
gamma-BHC				
delta-BHC				
Heptachlor				
Aldrin				
Heptachlor Epoxide				
Endosulfan I				
DDE Dieldrin				
Endrin				
Endosulfan II				
DDD				
Endrin Aldehyde				
DDT				
Endosulfan Sulfate				
Endrin Ketone				
Methoxy Chlor				
Chlordane				
Dibutyl Chlorendate				
Spike Level				
Vol Sequence	#3-08/28/93, #4-08/29/93			
CCI4	< 0.02			
TCA	< 0.02			
Benzene	< 0.02			
TCE	< 0.02		•	
Toluene	< 0.02			
PCE	< 0.02			
Ethylbenzene	< 0.02			
Xylenes	< 0.04			
Gasoline	<2 J			
Spike level				
BFB	73			

			,
ICF ID	LON-LF11-S01	LON-LF11-S02	LON-LF11-S03
F&BI Number	946 msd	948	950 soil 8/27/93
Sample Type	soil	soil	soil by as
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight		91	88
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas			
JP-4		< 50	<50
Lube Oil		<100	<110
Diesel	93	£90450	£50 € 60
Spike Level	500		
Unknown Semi-volatile			
Pentacosane	110	104	94
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
PCB 1221		< 0.1	<0.1
PCB 1232		< 0.1	<0.1
PCB 1016		< 0.1	<0.1
PCB 1242		< 0.1	<0.1
PCB 1248		< 0.1	<0.1
PCB 1254	98	< 0.1	< 0.1
PCB 1260		< 0.1	<0.1
Spike Level	10		
Dibutyl Chlorendate	110	104	94
Sequence Date			#6-08/28/93
alpha-BHC			<0.01 J
beta-BHC			< 0.01
gamma-BHC			< 0.01
delta-BHC			< 0.01
Heptachlor			< 0.01
Aldrin			< 0.01
Heptachlor Epoxide			<0.01
Endosulfan l			< 0.01
DDE			<0.01
Dieldrin			<0.01
Endrin			<0.01
Endosulfan II			< 0.01
DDD			< 0.01
Endrin Aldehyde			< 0.01
DDT			<0.01
Endosulfan Sulfate			<0.01
Endrin Ketone			<0.01 ¥
Methoxy Chlor			<0.1 < 0.5 J
Chlordane			<0.5 T
Dibutyl Chlorendate			94
Spike Level		"0 00 100 100 "A 00 100 101	2 #2 00/00/02 #4 00/20/02
Vol Sequence			3 #3-08/28/93, #4-08/29/93
CCI4		< 0.02	<0.02
TCA		< 0.02	<0.02
Benzene		< 0.02	<0.02
TCE		< 0.02	<0.02
Toluene		< 0.02	<0.02
PCE		< 0.02	< 0.02
Ethylbenzene		< 0.02	< 0.02
Xylenes		< 0.04	<0.04
Gasoline		<2 J	<2 丁
Spike level			22
BFB		87	88

ICF ID	LON-LF11-S04	LON-LF11-S05	LON-LF11-SD01
F&Bl Number	952	954	956
Sample Type	soil	soil	soil by 5'7'
Date Received	8/27/93	8/27/93	8/27/93
% Dry Weight	88	85	86
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
Leaded Gas			
JP-4	< 50	< 60	< 60
Lube Oil	< 100	< 120	<120
Diesel	≤50460	< 60	< 60
Spike Level			
Unknown Semi-volatile			
Pentacosane	105	92	93
Sequence Date	#6-08/28/93	#6-08/28/93	#6-08/28/93
PCB 1221	<0.1	< 0.1	< 0.1
PCB 1232	<0.1	< 0.1	< 0.1
PCB 1016	<0.1	< 0.1	< 0.1
PCB 1242	<0.1	< 0.1	< 0.1
PCB 1242	<0.1	<0.1	< 0.1
	<0.1	<0.1	<0.1
PCB 1254	<0.1	<0.1	<0.1
PCB 1260	<0.1	<b>\0.1</b>	
Spike Level	105	92	93
Dibutyl Chlorendate	105	32	30
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			<del></del> -
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3-08/28/93, #4-08/29/9	3 #3-08/28/93, #4-08/29/93	
CCI4	< 0.02	< 0.02	< 0.02
TCA	< 0.02	< 0.02	< 0.02
Benzene	<0.4 ブ	< 0.02	<0.02
TCE	< 0.02	< 0.02	\0.0Z
Toluene	<0.4 J	< 0.02	< 0.02
PCE	< 0.02	< 0.02	< 0.02
Ethylbenzene	<0.4 T	< 0.02	<0.02
Xylenes	<0.8丁	< 0.04	<0.04
Gasoline	\$24105	<2 <b>T</b>	<2 J
Spike level			
BFB	101	119	113

	ICF ID	LON-LF11-SD02	LON-LF11-SD03	LON-LF11-SW01
	F&Bi Number	958	960	892 (M/4)
	Sample Type	soil	soil	water by 5.95
	Date Received	8/27/93	8/27/93	8/27/93 1 ⁰
	% Dry Weight	84	80	
	Sequence Date	#6-08/28/93	#6-08/28/93	#5-08/28/93
	•	#0-08/28/33	#0 00/20/00	" 0 0 0 1 Z 0 1 0 0
	Leaded Gas	< 60	<60	< 200
	JP-4	<120	<120	<2000
	Lube Oil	<60	<60	\$200 c 1000
	Diesel	< 60	<00	<b>72</b> 00 11
	Spike Level			
	Unknown Semi-volatile	22	93	50
	Pentacosane	93		#5-08/28/93
	Sequence Date	#6-08/28/93	#6-08/28/93	
	PCB 1221	< 0.1	< 0.1	<2 J
	PCB 1232	< 0.1	<0.1	<2
	PCB 1016	< 0.1	< 0.1	<2
	PCB 1242	< 0.1	< 0.1	< 2
	PCB 1248	< 0.1	< 0.1	<2
	PCB 1254	< 0.1	< 0.1	<2
	PCB 1260	< 0.1	< 0.1	<2 <b>V</b>
	Spike Level			
	Dibutyl Chlorendate	93	93	36
	Sequence Date			
	alpha-BHC			
	beta-BHC			
	gamma-BHC			
	delta-BHC			
	Heptachlor			
	Aldrin			
,	Heptachlor Epoxide			
	Endosulfan I			
	DDE			
	Dieldrin			
	Endrin			
	Endosulfan II			
	DDD			
	Endrin Aldehyde			
	DDT			
	Endosulfan Sulfate			
	Endrin Ketone			
	Methoxy Chlor			
	Chlordane			
	Dibutyl Chlorendate			
	Spike Level			
	Vol Sequence	#3-08/28/93, #4-08/29/93	3 #3-08/28/93, #4-08/29/93	
	CCI4	< 0.02	< 0.02	
	TCA	< 0.02	< 0.02	
	Benzene	< 0.08	< 0.02	
	TCE	< 0.02	< 0.02	
	Toluene	< 0.02	< 0.02	
	PCE	< 0.02	< 0.02	
	Ethylbenzene	0.2	< 0.02	
	Xylenes	1.2	< 0.04	
r	Gasoline	8 J	<2 <b>T</b>	
	Spike level			
	BFB	103	115	

ICF ID F&BI Number Sample Type	LON-LF11-SW01 894 water	LON-LF11-SW02 896 water	LON-LF11-SW02 898 water
Date Received	8/27/93	8/27/93	8/27/93 هـ ها 8/27/93
% Dry Weight	3/2//00	0,2,,,,,	77.5
_		#5-08/28/93	
Sequence Date		# 0 00/20/00	
Leaded Gas		< 200	
JP-4		<2000	
Lube Oil		£200 < 1000	
Diesel		\$200-7000	
Spike Level			
Unknown Semi-volatile		60	
Pentacosane		#5-08/28/93	
Sequence Date		<2	
PCB 1221		<2	
PCB 1232		<2	
PCB 1016		<2	
PCB 1242		<2	
PCB 1248		< 2	
PCB 1254		<2	
PCB 1260		< 2	
Spike Level		58	
Dibutyl Chlorendate		30	
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate Endrin Ketone			
Methoxy Chlor			
Chlordane Dibutyl Chlorendate			
Spike Level	#3-08/28/93, #4-08/29/93		#3-08/28/93, #4-08/29/93
Vol Sequence CCl4	<1		<1
TCA	<1		<1
Benzene	<1		<1
TCE	<1		<1
	<1		<1
Toluene PCE	<1		<1
	<1		<1
Ethylbenzene	<2		<2
Xylenes Gasoline	<100 J		<100J
	< 100 <b>v</b>		1000
Spike level	74		97
BFB	/4		<b>0</b> ,

	ICF ID	LON-LF11-SW03	LON-LF11-SW03
	F&BI Number	902	904
	Sample Type	water	water
	Date Received	8/27/93	8/27/93
	% Dry Weight	0/27/30	3/2./33
	Sequence Date	#5-08/28/93	
	Leaded Gas	#3-00/20/33	
	JP-4	< 200	
	Lube Oil	< 2000	
	Diesel	<2000 ~ 1000	
	Spike Level	\$200 27000	
	Unknown Semi-volatile		
	Pentacosane	60	
	Sequence Date	#5-08/28/93	
	PCB 1221	<2	
	PCB 1232	<2	
	PCB 1016	<2	
	PCB 1242	<2	
	PCB 1248	<2	
	PCB 1254	<2	
	PCB 1260	<2	
	Spike Level	``	
	Dibutyl Chlorendate	61	
	Sequence Date	<b>.</b>	
	alpha-BHC		
	beta-BHC		
	gamma-BHC		
	delta-BHC		
	Heptachlor		
	Aldrin		
	Heptachlor Epoxide		
	Endosulfan I		
	DDE		
	Dieldrin		
	Endrin		
	Endosulfan II		
	DDD		
	Endrin Aldehyde		
	DDT		
	Endosulfan Sulfate		
	Endrin Ketone		
	Methoxy Chlor		
	Chlordane		
	Dibutyl Chlorendate		
	Spike Level		
	Vol Sequence		#3-08/28/93, #4-08/29/93
	CCI4		<1
	TCA		<1
	Benzene		4
	TCE		<1
	Toluene		17
	PCE		<1
	Ethylbenzene		<1
•	Xylenes		7 T
	Gasoline		200 丁
	Spike level		
	BFB		95

ANALYTICAL DATA SHEETS FOR THE MODULE TRAIN (SS12)



REPORT of ANALYSIS

ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.#

:93.4355-1

Client Sample ID :LON-SS12-S03

Matrix

:SOIL

5633 B STREET ANCHORAGE, AK 99518

TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS :DEW LINE

Project# PWSID

:LONELY

:UA

WORK Order

:70111

Report Completed :10/13/93

Collected Received

:08/24/93

0 17:20 hrs :08/26/93 @ 12:00 hr:

Technical Director: STEPHEN C. EDE

Released By: State C. Eff

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND JERRY M.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.020	U	mg/Kg	EPA 8260		00 (06		
	Bromobenzene	0.020	U	mg/Kg	EPA 8260			09/14	KWM
	Bromochloromethane	0.020	U	mg/Kg	EPA 8260			09/14	KWM
	Bromodichloromethane	0.020	U	mg/Kg	EPA 8260		08/26	09/14	KWM
	Bromoform	0.020	U	mg/Kg	EPA 8260			09/14	KWM
	Bromomethane	0.020	U	mg/Kg	EPA 8260			09/14	KWM
	n-Butylbenzene	0.020	U	mg/Kq	EPA 8260			09/14	KWM
	sec-Butylbenzene	0.020	U	mg/Kg	EPA 8260			09/14	KWM
	tert-Butylbenzne	0.020	U	mg/Kg	EPA 8260		08/25	09/14	KWM
	Carbon Tetrachloride	0.020	U	mg/Kg	EPA 8260			09/14	KWM
4	Chlorobenzene	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	Chloroethane	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	Chloroform	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	Chloromethane	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	2-Chlorotoluene	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	4-Chlorotoluene	0.020	ប	mg/Kg	EPA 8260		08/26 08/26		KWM
	Dibromochloromethane	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	12Dibromo3Chloropropane	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	1,2-Dibromoethane	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	Dibromomethane	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	1,2-Dichlorobenzene	0.020	Ü	mg/Kg	EPA 8260		08/26		KWM
	1,3-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	1,4-Dichlorobenzene	0.020	U	mg/Kg	EPA 8260		08/26		KWM KWM
	Dichlorodifluoromethane	0.020	ប	mg/Kg	EPA 8260		08/26		KWM
	1,1-Dichloroethane	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	1,2-Dichloroethane	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	1,1-Dichloroethene	0.020	ប	mg/Kg	EPA 8260		08/26		KWM
	cis-1,2-Dichloroethene	0.020	U	mg/Kg	EPA 8260		08/26		KWM
	trans1,2-Dichloroethene	0.020		mg/Kg	EPA 8260		08/26		KWM
	1,2-Dichloropropane	0.020		mg/Kg	EPA 8260		08/26		KWM
	1,3-Dichloropropane	0.020		mg/Kg	EPA 8260		08/26		KWM
	2,2-Dichloropropane	0.020		mg/Kg	EPA 8260		08/26		KWM
	1,1-Dichloropropene Ethylbenzene	0.020		mg/Kg	EPA 8260		08/26		KWM
	Periodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitodi openitod	0.020		mg/Kg	EPA 8260		08/26		KWM
	Hexachlorobutadiene	0.020		mg/Kg	EPA 8260		08/26		KWM
	Isopropyltaluana	0.020		mg/Kg	EPA 8260		08/26		KWM
	p-Isopropyltoluene	0.020	U	mg/Kg	EPA 8260		08/26		KWM
							,	/ - 1	******



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4355-1

REPORT of ANALYSIS

Client Sample ID :LON-SS12-S03 Matrix :SOIL

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

natrix	:SOIL							FAX: (907) 56	61-5301
Methylene Chlor	ride	0.020	U	ma /Va		0260	22.40		
Napthalene	100	0.020		mg/Kg		8260	08/2	6 09/14	KWM
n-Propylbenzene	•	0.020		mg/Kg		8260	08/2	6 09/14	KWM
Styrene	•	0.075	U	mg/Kg		8260	08/2	6 09/14	KWM
1112-Tetrachlor	nethane	0.020	U	mg/Kg		8260		6 09/14	KWM
1122-Tetrachlor	nethane	0.020	Ü	mg/Kg		8260		6 09/14	KWM
Tetrachloroethe	ne	0.020	Ü	mg/Kg		8260		6 09/14	KWM
Toluene		0.020	Ü	mg/Kg		8260		6 09/14	KWM
1,2,3-Trichloro	henzene	0.020	Ü	mg/Kg		8260		6 09/14	KWM
1,2,4-Trichloro	benzene	0.020	Ü	mg/Kg		8260		6 09/14	KWM
1,1,1-Trichloro	ethane	0.020	บ	mg/Kg		8260		6 09/14	KWM
1,1,2-Trichloro	ethane	0.020	Ü	mg/Kg		8260		6 09/14	KWM
Trichloroethene	Certaire	0.020	Ü	mg/Kg		8260		6 09/14	KWM
Trichlorofluoro	methana	0.020		mg/Kg		8260		6 09/14	KWM
1,2,3-Trichloro	Dropane	0.020	U	mg/Kg		8260		5 09/14	KWM
1,2,4-Trimethyl	penzene Probatie	0.020	U	mg/Kg		8260		6 09/14	KWM
1,3,5-Trimethyl	benzene benzene	0.020	U	mg/Kg		8260		5 09/14	KWM
Vinyl Chloride	benzene		U	mg/Kg		8260		5 09/14	KWM
p+m-Xylene		0.020	U	mg/Kg		8260		5 09/14	KWM
o-Xylene		0.020	U	mg/Kg		8260		5 09/14	KWM
·		0.020	U	mg/Kg	EPA	8260	08/26	5 09/14	KWM
Semivolatile Or	ganics				ETD N	8270			
Phenol	<b>J -</b>	4.00	U	mg/Kg		8270	00.405		
bis(2-Chloroeth	vl)ether	4.00	Ü	mg/Kg		8270		7 10/07	
2-Chlorophenol	,	4.00	Ü	mg/Kg		8270		7 10/07	
1,3-Dichloroben	zene	4.00	Ü	mg/Kg		8270		7 10/07	G <b>V</b>
1,4-Dichloroben	zene	4.00	Ü	mg/Kg		8270		7 10/07	G <b>V</b>
Benzyl Alcohol		4.00	Ŭ	mg/Kg		8270		10/07	GV
1,2-Dichloroben	zene	4.00	Ü	mg/Kg		8270		10/07	G <b>V</b>
2-Methylphenol		4.00	Ü	mg/Kg		8270		10/07	G <b>V</b>
bis(2-Chloroiso	propyl)e	4.00	Ü	mg/Kg		8270		10/07	G <b>V</b>
4-Methylphenol		4.00	Ü	mg/Kg		8270		10/07	G <b>V</b>
n-Nitroso-di-n-1	Propylam	4.00	Ü	mg/Kg		8270		10/07	G <b>V</b>
Hexachloroethane	9	4.00	Ü	mg/Kg		8270		10/07	G <b>V</b>
Nitrobenzene		4.00	Ü	mg/Kg		8270		10/07	G <b>V</b>
Isophorone		4.00	Ü	mg/Kg		8270		10/07	<b>GV</b>
2-Nitrophenol		4.00	Ŭ	mg/Kg		8270		10/07	G <b>V</b>
2,4-Dimethylpher	nol	4.00	Ū	mg/kg		8270		10/07	GV
Benzoic Acid		4.00	Ü	mg/Kg		8270		10/07	GV
bis(2-Chloroetho	oxy)Meth	4.00	Ū	mg/Kg		8270		10/07	GV GV
2,4-Dichloropher	nol	4.00	Ū	mg/Kg		8270		10/07 10/07	GV CV
1,2,4-Trichlorob	penzene	4.00	Ū	mg/Kg		8270		10/07	G <b>V</b>
Naphthalene		4.00	Ū	mg/Kg		8270		10/07	GV
4-Chloroaniline		4.00	Ū	mg/Kg		8270			GV
Hexachlorobutadi		4.00	Ū	mg/Kg		8270		10/07 10/07	GV
4-Chloro-3-Methy	lphenol	4.00	Ū	mg/Kg		8270			GV
2-Methylnaphthal	Lene	4.00	Ü	mg/Kg		8270		10/07 10/07	GV
Hexachlorocyclor		4.00	Ŭ	mg/Kg		8270	02/01	10/07	GV
2,4,6-Trichlorop		4.00	Ŭ	mg/Kg		8270		10/07	GV
2,4,5-Trichloror	henol	4.00	Ü	mg/Kg		8270		10/07	GV
2-Chloronaphthal	.ene	4.00	Ŭ	mg/Kg		8270		10/07	GV
				<b>_</b> ,,			03/07	10/01	
									-





Matrix

# COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

hemlab Ref.#

:93.4355-1 Client Sample ID :LON-SS12-S03

:SOIL

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

2-Nitroaniline	4.00	U	mg/Kg	EPA 8270	09/07 10/07	GV
Dimethylphthalate	4.00	U	mg/Kg	EPA 8270	09/07 10/07	GV
Acenaphthylene	4.00	U	mg/Kg	EPA 8270	09/07 10/07	GV
2,6-Dinitrotoluene	4.00	U	mg/Kg	EPA 8270	09/07 10/07	GV
3-Nitroaniline	4.00	U	mg/Kg	EPA 8270	09/07 10/07	GV GV
Acenaphthene	4.00	U	mg/Kg	EPA 8270	09/07 10/07	GV
2,4-Dinitrophenol	4.00	U	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
4-Nitrophenol	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Dibenzofuran	4.00	U	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
2,4-Dinitrotoluene	4.00	U	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Diethylphthalate	4.00	U	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
4-Chlorophenyl-Phenylet	4.00	U	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Fluorene	4.00	U	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
4-Nitroaniline	4.00	U	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
4,6-Dinitro-2-Methylphe	4.00	U	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
n-Nitrosodiphenylamine	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	
4-Bromophenyl-Phenyleth	4.00	Ū	mg/Kg	EPA 8270	0 <del>9</del> /07 10/07	GV
Hexachlorobenzene	4.00	Ū	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Pentachlorophenol	4.00	Ū	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Phenanthrene	4.00	Ū	mg/Kg	EPA 8270	09/07 10/07	GV
Anthracene	4.00	Ū	mg/Kg	EPA 8270		G <b>V</b>
di-n-Butylphthalate	4.00	Ū	mg/Kg ····	EPA 8270	09/07 10/07	G <b>V</b>
Fluoranthene	4.00	Ū	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Pyrene	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	GV
Butylbenzylphthalate	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
3,3-Dichlorobenzidine	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Benzo(a)Anthracene	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	GV
Chrysene	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
bis(2-Ethylhexyl)Phthal	4.00	Ü	mg∕Kq	EPA 8270	09/07 10/07	G <b>V</b>
di-n-Octylphthalate	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Benzo(b)Fluoranthene	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	GV
Benzo(k)Fluoranthene	4.00	Ü	mg/Kg		09/07 10/07	GV
Benzo(a)Pyrene	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Indeno(1,2,3-cd)Pyrene	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Dibenz(a,h)Anthracene	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
Benzo(g,h,i)Perylene	4.00	Ü	mg/Kg	EPA 8270	09/07 10/07	G <b>V</b>
.5, , ,		J		EPA 8270	09/07 10/07	G <b>V</b>

See Special Instructions Above

See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit.

 $\overline{D}$  = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than GT = Greater Than



**SGS** Member of the SGS Group (Société Générale de Surveillance)



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

Chemlab Ref.# :93.4355-2 Client Sample ID :LON-SS12-SW01

Matrix

Client Name

Project Name

Ordered By

Project#

PWSID

:WATER

:RAY MORRIS

:DEW LINE

: LONELY

:UA

WORK Order

Report Completed

:70111 :10/13/93

:08/24/93 @ 17:00 hrs

5633 B STA ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Collected Received

:08/26/93 @ 12:00 hrs

Technical Director: STEPHEN_C. EDE

Released By : 1

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND JERRY M.

:ICF KAISER ENGINEERING

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	ប	mg/L	EPA 8260		00/00	00/00	10774
Bromobenzene	0.0010	Ū	mg/L	EPA 8260			09/ <b>08</b> 09/ <b>08</b>	KWM
Bromochloromethane	0.0010	Ū	mg/L	EPA 8260			09/08	KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/08	KWM
Bromoform	0.0010	U	mg/L	EPA 8260			09/08	KWM
Bromomethane	0.0010	U	mg/L	EPA 8260			09/08	KWM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/08	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/08		KWM
tert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/08	KAH
Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/08		
Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/08		THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S
Chloroethane	0.0010	U	mg/L	EPA 8260		09/08		KWH
Chloroform	0.0010	Ū	mg/L	EPA 8260				KWM
Chloromethane	0.0010	Ū	mg/L	EPA 8260		09/08		KWM
2-Chlorotoluene	0.0010	Ū	mg/L	EPA 8260		09/08		KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/08		KWM
Dibromochloromethane	0.0010	Ū	mg/L	EPA 8260		09/08 09/08		KWM
12Dibromo3Chloropropane	0.0010	Ū	mg/L	EPA 8260			•	KWM
1,2-Dibromoethane	0.0010	Ū	mg/L	EPA 8260		09/08		KWM
Dibromomethane	0.0010	Ū	mg/L	EPA 8260		09/08		KWH
1,2-Dichlorobenzene	0.0010	Ū	mg/L	EPA 8260		09/08 09/08		KWM
1,3-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260		09/08		KWM
1,4-Dichlorobenzene	0.0010	Ū	mg/L	EPA 8260				KWM
Dichlorodifluoromethane	0.0010	Ū	mg/L	EPA 8260		09/08		KWM
1,1-Dichloroethane	0.0010	Ū	mg/L	EPA 8260		09/08		KWM
1,2-Dichloroethane	0.0031		mg/L	EPA 8260		09/08 09/08		KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/08		KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/08		KWM
trans1,2-Dichloroethene	0.0010	Ü	mg/L	EPA 8260		09/08		KWM KWM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/08		
1,3-Dichloropropane	0.0010	Ü	mg/L	EPA 8260		09/08		KWM
2,2-Dichloropropane	0.0010	Ū	mg/L	EPA 8260		09/08		KWM
1,1-Dichloropropene	0.0010	Ū	mg/L	EPA 8260	. *	09/08		KWM KWM
Ethylbenzene	0.0010	Ü	mg/L	EPA 8260		09/08		KWM
Hexachlorobutadiene	0.0010	Ū	mg/L	EPA 8260		09/08		KWM KWM
Isopropylbenzene	0.0010	Ū	mg/L	EPA 8260		09/08		
p-Isopropyltoluene	0.0010	Ū	mg/L	EPA 8260		09/08	•	KHM
	_		··· <b>J,</b>	LA /1 UZUU		0 37 00	0 3/ 00	



ENVIRONMENTAL LABORATORY SERVICES

emlab Ref.#

:93.4355-2

Client Sample ID :LON-SS12-SW01

Matrix :WATER REPORT of ANALYSIS SEC

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Methylene Chloride	0.0010	U	mg/L	EPA 8260	09/08 09/08	17714
Napthalene	0.0010	Ŭ	mg/L	EPA 8260		KWM
n-Propylbenzene	0.0010	Ü	mg/L	EPA 8260	09/08 09/08	KWM
Styrene	0.0010	Ü	mg/L		09/08 09/08	KWM
1112-Tetrachloroethane	0.0010	Ü		EPA 8260	09/08 09/08	KWM
1122-Tetrachloroethane	0.0010		mg/L	EPA 8260	09/08 09/08	KWM
Tetrachloroethene		Ü	mg/L	EPA 8260	09/08 09/08	KWM
Toluene	0.0010	U	mg/L	EPA 8260	09/08 09/08	KWM
	0.0016		mg/L	EPA 8260	09/08 09/08	KWM
1,2,3-Trichlorobenzene	0.0010	U	mg/L	EPA 8260	09/08 09/08	KWM
1,2,4-Trichlorobenzene	0.0010	U	mg/L	EPA 8260	09/08 09/ <b>0</b> 8	KWM
1,1,1-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/08 09/08	KWM
1,1,2-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/08 09/08	KWM
Trichloroethene	0.0010	U	mg/L	EPA 8260	09/08 09/08	KWM
Trichlorofluoromethane	0.0010	Ü	mg/L	EPA 8260	09/08 09/08	KWM
1,2,3-Trichloropropane	0.0010	U	mg/L	EPA 8260	09/08 09/08	KWM
1,2,4-Trimethylbenzene	0.0010	U	mg/L	EPA 8260	09/08 09/08	KWM
1,3,5-Trimethylbenzene	0.0010	U	mg/L	EPA 8260	0 <del>9/</del> 08 09/08	KWM
Vinyl Chloride	0.0010	U	mg/L	EPA 8260	09/08 09/08	KWM
p+m-Xylene	0.0010	U	mg/L	EPA 8260	09/08 09/08	
o-Xylene	0.0010	Ū	mg/L	EPA 8260		KWM
		•	9/ 🚨	MA 0200	09/08 09/08	KWM
Semivolatile Organics				EPA 8270	•	
Phenol	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
bis(2-Chloroethyl)ether	0.011	U	mg/L	EPA 8270	08/30 09/06	
2-Chlorophenol	0.011	Ŭ	mg/L	EPA 8270		MTT
1,3-Dichlorobenzene	0.011	Ū	mg/L	EPA 8270	08/30 09/06	MTT
1,4-Dichlorobenzene	0.011	Ü	mg/L	EPA 8270	08/30 09/06	MTT
Benzyl Alcohol	0.011	Ü	mg/L		08/30 09/06	MTT
1,2-Dichlorobenzene	0.011	Ü	mg/L	EPA 8270	08/30 09/06	MTT
2-Methylphenol	0.011	Ü		EPA 8270	08/30 09/06	MTT
bis(2-Chloroisopropyl)e	0.011	Ü	mg/L	EPA 8270	08/30 09/06	MTT
4-Methylphenol	0.011	บ	mg/L	EPA 8270	08/30 09/06	MTT
n-Nitroso-di-n-Propylam			mg/L	EPA 8270	08/30 09/06	MTT
Hexachloroethane	0.011	Ü	mg/L	EPA 8270	08/30 09/06	MTT
Nitrobenzene	0.011	Ü	mg/L	EPA 8270	08/30 09/06	MTT
Isophorone	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
2-Nitrophenol	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
2,4-Dimethylphenol	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
Benzoic Acid	0.011	U	mg/L	EPA 8270	08/30 09/06	HTT .
bis(2-Chloroethoxy)Meth	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
2,4-Dichlorophenol	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
1,2,4-Trichlorobenzene	0.011	U	mg/L	EPA 8270	08/30 09/06	HTT
Naphthalene	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
4-Chloroaniline	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
Hexachlorobutadiene	0.011	U	mg/L	EPA 8270	08/30 09/06	HTT
4-Chloro-3-Methylphenol	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
2-Methylnaphthalene	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
Hexachlorocyclopentadie	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
2,4,6-Trichlorophenol	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
2,4,5-Trichlorophenol	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
2-Chloronaphthalene	0.011	U	mg/L	EPA 8270	08/30 09/06	MTT
			J, _		33,30 03,00	



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS 5633 B STR Chemlab Ref.# :93.4355-2 ANCHORAGE, AK 99518 Client Sample ID :LON-SS12-SW01 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER 2-Nitroaniline 0.011 U mg/L 08/30 09/06 EPA 8270 MTT Dimethylphthalate 0.011 U mg/L EPA 8270 08/30 09/06 MTT Acenaphthylene 0.011 U mg/L EPA 8270 08/30 09/06 MTT 2,6-Dinitrotoluene 0.011 U 08/30 09/06 mg/L EPA 8270 MTT 3-Nitroaniline 0.011 08/30 09/06 EPA 8270 mg/L MTT Acenaphthene 08/30 09/06 0.011 U EPA 8270 mg/L MTT 0.011 2,4-Dinitrophenol U 08/30 09/06 EPA 8270 mg/L MTT 4-Nitrophenol 0.011 U mg/L EPA 8270 08/30 09/06 MTT Dibenzofuran 0.011 U 08/30 09/06 mq/L EPA 8270 MTT 2,4-Dinitrotoluene EPA 8270 0.011 U 08/30 09/06 mg/L MTT Diethylphthalate 0.011 П 08/30 09/06 mg/L EPA 8270 MTT 4-Chlorophenyl-Phenylet 0.011 U mq/L EPA 8270 08/30 09/06 MTT Fluorene 0.011 U EPA 8270 08/30 09/06 mq/L MTT 4-Nitroaniline 0.011 08/30 09/06 EPA 8270 mg/L MTT 4,6-Dinitro-2-Methylphe 0.011 U EPA 8270 08/30 09/06 mg/L TTM n-Nitrosodiphenylamine 0.011 U EPA 8270 08/30 09/06 mg/LMIT 4-Bromophenyl-Phenyleth 0.011 U EPA 8270 08/30 09/06 mq/L MTT Hexachlorobenzene 0.011 U mg/L EPA 8270 08/30 09/06 MTT Pentachlorophenol 0.011 U EPA 8270 08/30 09/06 mq/L MTT Phenanthrene 0.011 U mg/L EPA 8270 08/30 09/06 MTT Anthracene 0.011 U EPA 8270 08/30 09/06 mq/L MTT di-n-Butylphthalate 0.011 U mg/L .... EPA 8270 08/30 09/06 MTT Fluoranthene 0.011 U EPA 8270 08/30 09/06 mg/L Pyrene 0.011 U EPA 8270 08/30 09/06 mg/L Butylbenzylphthalate 0.011 U 08/30 09/06 mg/L EPA 8270 MTT 3,3-Dichlorobenzidine 0.011 U mg/L EPA 8270 08/30 09/06 MTT Benzo(a)Anthracene 0.011 U 08/30 09/06 mq/L EPA 8270 MIT Chrysene 0.011 U 08/30 09/06 mg/L EPA 8270 MTT bis(2-Ethylhexyl)Phthal 0.011 U 08/30 09/06 EPA 8270 MTT mg/L di-n-Octylphthalate 0.011 U **EPA** 8270 08/30 09/06 mg/L MTT Benzo(b)Fluoranthene 0.011 H 08/30 09/06 mg/L EPA 8270 MTT Benzo(k)Fluoranthene 0.011 IJ mg/L EPA 8270 08/30 09/06 MTT Benzo(a)Pyrene Ū 0.011 mg/L EPA 8270 08/30 09/06 MTT Indeno(1,2,3-cd)Pyrene 0.011 U 08/30 09/06 MTT mq/L EPA 8270 Dibenz(a,h)Anthracene U 0.011 mg/L EPA 8270 08/30 09/06 MIT Benzo(g,h,i)Perylene 0.011 **EPA** 8270 08/30 09/06 MTT mg/L TOC, Nonpurgable EPA 9060 n/a ...TOC Range 42.5-44.8 09/07 CMR mg/L EPA 9060 ...TOC Concentration 43.7 09/07 mg/L EPA 9060 CMR

* See Special Instructions Above

** See Sample Remarks Above

Residue, Non-Filterable

Residue, Filterable (TDS)

U = Undetected, Reported value is the practical quantification limit.

64

615

D = Secondary dilution.

UA = Unavailable

08/30 08/31 09/01 09/02

500

**GPP** 

**RJK** 

NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)

EPA 160.2

EPA 160.1

mg/L

mg/L

ICF ID	LON-SS12-S01	LON-SS12-S02	LON-SS12-S03
F&BI Number	502	506	504 ( A )
Sample Type	soil	soil	soil
Date Received	8/25/93	8/25/93	8/25/93
% Dry Weight	96	95	91
Sequence Date	#5-08/25/93	#5-08/25/93	#5-08/25/93
Leaded Gas	#3 00/25/50	# 0 00/20/00	
JP-4	<50	<50	<50
Lube Oil	<100	<100	560
Diesel	< 50	<50	<50
Spike Level	<b>\ 30</b>		100
Unknown Semi-volatile			
Pentacosane	112	116	151
Sequence Date	1.2		
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#1&2-08/25/93	#1&2-08/25/93	#1&2-08/25/93
CCI4	< 0.02	< 0.02	< 0.02
TCA	< 0.02	< 0.02	< 0.02
Benzene	< 0.02	< 0.02	< 0.02
TCE	< 0.02	< 0.02	<0.02
Toluene	< 0.02	< 0.02	< 0.02
PCE	< 0.02	< 0.02	< 0.02
Ethylbenzene	< 0.02	< 0.02	< 0.02
Xylenes	< 0.04	< 0.04	< 0.04
Gasoline	<2 J	<2 T	<2 ブ
Spike level			
BFB	86	83	90

ICF ID	LON-SS12-2S04 1762	LON-SS12-SD01 516	LON-SS12-2SD02 1763
F&BI Number	soil	soil	soil H
Sample Type	9/5/93	8/25/93	9/5/93
Date Received	23	88	73
% Dry Weight	#5-09/06/93	#5-08/25/93	#5-09/06/93
Sequence Date Leaded Gas	#3-03/00/00	,, 6 66, 25, 75	
JP-4	< 250	< 60	< 70
Lube Oil	< 500	<120	< 140
Diesel	<250	< 60	< 70
Spike Level	1200		
Unknown Semi-volatile			
Pentacosane	120	113	110
Sequence Date	•		
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level		#1&2-08/25/93	
Vol Sequence CCl4		< 0.02	
TCA		< 0.02	
Benzene		< 0.02	
TCE		< 0.02	*:
Toluene		< 0.02	
PCE		< 0.02	
Ethylbenzene		< 0.02	
Xylenes		< 0.04	
Gasoline		<2 J	
Spike level			
BFB		83	
<del></del>			

ICF ID F&BI Numbe	ar.	<i>\$504</i> LON-\$ <del>\$1</del> 2-\$W01 512	LON-SS12-SW01 514	اری 1761 (۱۳۶۵ – LON-SS12-2SW02
Sample Type		water	water	water by
Date Receive		8/25/93	8/25/93	9/5/93 v ^o
% Dry Weig				
Sequence D			#5-08/27/93	#6-09/09/93
Leaded Gas				
JP-4			< 1000	< 1000
Lube Oil			< 2000	< 2000
Diesel			<1000	< 1000
Spike Level				
Unknown S				
Pentacosano			106	88
Sequence D	ate			
PCB 1221				
PCB 1232				
PCB 1016				
PCB 1242				
PCB 1248 PCB 1254				
PCB 1254 PCB 1260				
Spike Level				
Dibutyl Chlo				
Sequence D				
alpha-BHC				
beta-BHC				
gamma-BH0	0			
delta-BHC				
Heptachlor				
Aldrin				
Heptachlor				
Endosulfan	l			
DDE				
Dieldrin Endrin				
Endosulfan	П			
DDD	11			
Endrin Alde	hvde			
DDT	,			
Endosulfan	Sulfate			
Endrin Keto	one			
Methoxy Cl	hlor			
Chlordane				
Dibutyl Chl				
Spike Level				
Vol Sequen	ice	#3&4-08/25/93		#
CCI4				
TCA		000		
Benzene		230		*
TCE Toluene		580		•
PCE		560		
Ethylbenzei	ne	13 ブ		
Xylenes		200 F		
Gasoline		3000T		
Spike level				
BFB		85		

ANALYTICAL DATA SHEETS FOR THE HANGAR PAD AREA (SS13)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Chemlab Ref.# :93.4429-1 Client Sample ID :LON SS13 SD01

Matrix

PWSID

:SOIL

Client Name : ICF KAISER ENGINEERING

Ordered By Project Name Project#

:RAY MORRIS :DEW LINE :LONELY

:UA

WORK Order

Report Completed :10/20/93

:08/27/93 @ 13:40 hrs. Collected :08/29/93 @ 12:45 hrs. Received

:70219

Technical Director: STEPHEN C. EDE Released By : State C.

Allowable Eut

Sample Remarks: SAMPLE COLLECTED BY: JERRY M. B = THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE ASSOCIATED BLANK AS WELL AS IN THE SAMPLE.

	Q			Mathad	Allowable Limits	Ext. Date	Anal Date	Init
Parameter	Results Qu	aı 	Units	Method 				
Volatile Organics				EPA 8260		00 (20	00 (00	teta <b>M</b>
Benzene	0.030 U	i	mg/Kg	EPA 8260		08/30		KWM
Bromobenzene	0.030 U	ı	mg/Kg	EPA 8260		08/30		KWM
Bromochloromethane	0.030 U		mg/Kg	EPA 8260		08/30		KWM KWM
Bromodichloromethane	0.030 U		mg/Kg	EPA 8260		08/30		
Bromoform	0.030 U		mg/Kg	EPA 8260		08/30		KWM KWM
Bromomethane	0.030 U	J	mg/Kg	EPA 8260		08/30		KWM
_n-Butylbenzene	0.030 U	-	mg/Kg	EPA 8260			09/09	KMW
ec-Butylbenzene	0.030 U		mg/Kg	EPA 8260			09/09	KMW
ert-Butylbenzne	0.030 U		mg/Kg	EPA 8260			09/09 09/09	KMW
Carbon Tetrachloride	0.030 t	_	mg/Kg	EPA 8260				KWM
Chlorobenzene	0.030	-	mg/Kg	EPA 8260			09/09	KMH
Chloroethane	0.030 t	_	mg/Kg	EPA 8260			09/09	KWM
Chloroform	0.030 t	-	mg/Kg	EPA 8260			09/09 09/09	KWM
Chloromethane	0.030 t	-	mg/Kg	EPA 8260			09/09	KWM
2-Chlorotoluene	• • • • • •	J	mg/Kg	EPA 8260			09/09	KMW
4-Chlorotoluene		J	mg/Kg	EPA 8260			09/09	KWM
Dibromochloromethane		J	mg/Kg	EPA 8260			09/09	KWM
12Dibromo3Chloropropane		J	mg/Kg	EPA 8260			09/09	KWM
1,2-Dibromoethane		J	mg/Kg	EPA 8260			09/09	KWM
Dibromomethane		IJ	mg/Kg	EPA 8260			09/09	KWM
1,2-Dichlorobenzene		IJ	mg/Kg	EPA 8260			09/09	KWM
1,3-Dichlorobenzene	0.000	IJ	mg/Kg	EPA 8260			09/09	KWM
1,4-Dichlorobenzene	• • • • •	Ü	mg/Kg	EPA 8260			09/09	KWM
Dichlorodifluoromethane		U	mg/Kg	EPA 8260			09/09	KWM
1,1-Dichloroethane		U	mg/Kg	EPA 8260			09/09	KWM
1,2-Dichloroethane	4	U	mg/Kg	EPA 8260			09/09	KWM
1,1-Dichloroethene		U	mg/Kg	EPA 8260		06/30	09/09	KWM
cis-1,2-Dichloroethene	• • •	U	mg/Kg	EPA 8260 EPA 8260		08/30	09/09	KWM
trans1,2-Dichloroethene		U	mg/Kg	EPA 8260			09/09	KWM
1,2-Dichloropropane	0.000	U	mg/Kg	EPA 8260			09/09	KWM
1,3-Dichloropropane		U	mg/Kg	EPA 8260	.e.		09/09	KWM
2,2-Dichloropropane	• • • • •	U	mg/Kg	EPA 8260	•		09/09	KWM
1,1-Dichloropropene		U	mg/Kg	EPA 8260			09/09	KWM
Ethylbenzene	*	U	mg/Kg	EPA 8260		08/30	09/09	KWM
Hexachlorobutadiene	0.000	U	mg/Kg	EPA 8260			09/09	KWM
Isopropylbenzene	0.030	U	mg/Kg	EFA 0400		00/00	, 05,05	



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS XXC 5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

:93.4429-1 Chemlab Ref.# Client Sample ID :LON SS13 SD01

lient Sample ID :LON SS13 S	100			, ,	
atrix :SOIL					
p-Isopropyltoluene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
Methylene Chloride	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
Napthalene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KMW
n-Propylbenzene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
Styrene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1112-Tetrachloroethane	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1122-Tetrachloroethane	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
Tetrachloroethene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
Toluene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1,2,3-Trichlorobenzene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1,2,4-Trichlorobenzene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1,1,1-Trichloroethane	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1,1,2-Trichloroethane	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
Trichloroethene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
Trichlorofluoromethane	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1,2,3-Trichloropropane	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1,2,4-Trimethylbenzene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
1,3,5-Trimethylbenzene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
Vinyl Chloride	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
p+m-Xylene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KWM
o-Xylene	0.030 U	mg/Kg	EPA 8260	08/30 09/09	KMW
			EPA 8270		
Semivolatile Organics	2.70 U	mg/Kg	EPA 8270	09/10 10/14	
Phenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	G
bis(2-Chloroethyl)ether	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
2-Chlorophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
1,3-Dichlorobenzene	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
1,4-Dichlorobenzene	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
Benzyl Alcohol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
1,2-Dichlorobenzene	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
2-Methylphenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	<b>GV</b>
bis(2-Chloroisopropyl)e	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
4-Methylphenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
n-Nitroso-di-n-Propylam	2.70 U	mg/Kg	EPA 8270	09/10 10/14	<b>GV</b>
Hexachloroethane	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
Nitrobenzene	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
Isophorone	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
2-Nitrophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
2,4-Dimethylphenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
Benzoic Acid bis(2-Chloroethoxy)Meth	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
2,4-Dichlorophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	<b>GV</b>
1,2,4-Dichiolophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
Naphthalene 4-Chloroaniline	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
Hexachlorobutadiene	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
4-Chloro-3-Methylphenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
2-Methylnaphthalene	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
Hexachlorocyclopentadie	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
2,4,6-Trichlorophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
2,4,5-Trichlorophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14	GV
TIAIN ITTOMICTOR		<del>-</del>			





Chemlab Ref.#

### COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

:93.4429-1

Client Sample ID :LON SS13 SD01

REPORT OF ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

AX: (907) 561-5301

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Qualifici.	// •	Ł	r,
Caragain /	Jum		

Matrix :SOIL	3501		Chrabbin /	ounnus
2-Chloronaphthalene	2.70 ປ	mg/Kg	EPA 8270	09/10 10/14 GV
2-Nitroaniline	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Dimethylphthalate	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Acenaphthylene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
2.6-Dinitrotoluene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
3-Nitroaniline	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Acenaphthene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
2,4-Dinitrophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
4-Nitrophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Dibenzofuran	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
2,4-Dinitrotoluene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Diethylphthalate	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
4-Chlorophenyl-Phenylet	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Fluorene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
4-Nitroaniline	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
4,6-Dinitro-2-Methylphe	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
n-Nitrosodiphenylamine	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
4-Bromophenyl-Phenyleth		mg/Kg	EPA 8270	09/10 10/14 GV
Hexachlorobenzene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Pentachlorophenol	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Phenanthrene	2.70 บ	mg/Kg	EPA 8270	09/10 10/14 GV
Anthracene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
li-n-Butylphthalate	6.27 B		EPA 8270(W)-E.1	09/10 10/14 GV
Fluoranthene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Pyrene	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
Butylbenzylphthalate	2.70 U	mg/Kg	EPA 8270	09/10 10/14 GV
3,3-Dichlorobenzidine	2.70 U		EPA 8270	09/10 10/14 GV
Benzo(a)Anthracene	2.70 U	3	EPA 8270	09/10 10/14 GV 09/10 10/14 GV
Chrysene	2.70 U		EPA 8270	09/10 10/14 GV 09/10 10/14 GV
bis(2-Ethylhexyl)Phthal	2.70 U	5,	EPA 8270	09/10 10/14 GV
di-n-Octylphthalate	2.70 U		EPA 8270	09/10 10/14 GV
Benzo(b)Fluoranthene	2.70 U	J J	EPA 8270 EPA 8270	09/10 10/14 GV
Benzo(k)Fluoranthene	2.70 U		EPA 8270	09/10 10/14 GV
Benzo(a)Pyrene	2.70 บ 2.70 บ		EPA 8270	09/10 10/14 GV
Indeno(1,2,3-cd)Pyrene	2.70 U	57 5	EPA 8270	09/10 10/14 GV
Dibenz(a,h)Anthracene	2.70 U		EPA 8270	09/10 10/14 GV
Benzo(g,h,i)Perylene	2.70 0	mg/ r/g	ELA UZIV	03/10 10/14 94
TOC, Soil	19600	mg/Kg	PSEP Ref Lab	



See Special Instructions Above

See Sample Remarks Above U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than GT = Greater Than



SSS Member of the SGS Group (Société Générale de Surveillance)



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

5633 B STREE ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Chemlab Ref.# Client Sample ID :LON SS13 SW01

:93.4429-2

Matrix

:WATER

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS

Project# PWSID

:DEW LINE :LONELY

:UA

:70219 WORK Order

Report Completed :10/20/93

:08/27/93 @ 13:35 hrs. Collected :08/29/93 @ 12:45 hrs. Received

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Bromobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Bromochloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
Bromoform	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromomethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
tert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/03	K
Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260			09/03	
Chlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWH
Chloroethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Chloroform	0.0010	U	mg/L	EPA 8260			09/03	KWM KWM
Chloromethane	0.0010	U	mg/L	EPA 8260			09/03	
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/03	KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260			09/03	KWM KWM
1,2-Dibromoethane	0.0010		mg/L	EPA 8260		•	09/03	
Dibromomethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	
1,3-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	KWM KWM
1,4-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	
Dichlorodifluoromethane	0.0010		mg/L	EPA 8260			09/03	KWM
1,1-Dichloroethane	0.0010		mg/L	EPA 8260			09/03	KWM
1,2-Dichloroethane	0.0010		mg/L	EPA 8260			09/03 09/03	KWM
1,1-Dichloroethene	0.0010		mg/L	EPA 8260			09/03	KWM
cis-1,2-Dichloroethene	0.0010		mg/L	EPA 8260			09/03	KWM
trans1,2-Dichloroethene	0.0010		mg/L	EPA 8260 EPA 8260			09/03	KWM
1,2-Dichloropropane	0.0010		mg/L	EPA 8260			09/03	KWM
1,3-Dichloropropane	0.0010		mg/L	EPA 8260			09/03	KWM
2,2-Dichloropropane	0.0010		mg/L	EPA 8260	.*		09/03	KWM
1,1-Dichloropropene	0.0010		mg/L	EPA 8260	•		09/03	KWM
Ethylbenzene	0.0010		mg/L	EPA 8260			09/03	KWM
Hexachlorobutadiene	0.0010		mg/L	EPA 8260			09/03	KWM
Isopropylbenzene	0.0010 0.0010		mg/L	EPA 8260			09/03	Kraw
p-Isopropyltoluene	0.0010	U	mg/L	EI A 0200		0 2 / 0 3	33, 33	



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS SEE

5633 B STREET ANCHORAGE. AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Chemlab Ref.# :93.4429--2 Client Sample ID :LON SS13 SW01

Matrix :WATER

matrix	:WAIER								
Methylene C	hloride	0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
Napthalene		0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
n-Propylben	zene	0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
Styrene		0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
1112-Tetrac	hloroethane	0.0010	U	mg/L	EPA 8	3260	09/03		KWM
1122-Tetrac		0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
Tetrachloro		0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
Toluene		0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
1,2,3-Trich	lorobenzene	0.0010	U	mg/L	EPA 8	3260		09/03	KWM
1,2,4-Trich		0.0010	U	mg/L	EPA 8	3260		09/03	KWM
1,1,1-Trich		0.0010	U	mg/L	EPA 8	3260		09/03	KWM
1,1,2-Trich		0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
Trichloroet		0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
Trichlorofl	uoromethane	0.0010	U	mg/L	EPA 8	3260		09/03	KWM
1,2,3-Trich	loropropane	0.0010	U	mg/L	EPA 8	3260		09/03	KWM
	thylbenzene	0.0010	U	mg/L	EPA 8	3260		09/03	KWM
	thylbenzene	0.0010	U	mg/L	EPA 8	3260		09/03	KWM
Vinyl Chlor		0.0010	U	mg/L	EPA 8	3260		09/03	KWM
p+m-Xylene		0.0010	U	mg/L	EPA 8	3260		09/03	KWM
o-Xylene		0.0010	U	mg/L	EPA 8	3260	09/03	09/03	KWM
Semivolatil	e Organics				EPA 8				
henol		0.022	U	mg/L	EPA 8			09/27	<b>GV</b>
☑ois(2-Chlor	oethyl)ether	0.022	U	mg/L	EPA 8			09/27	GV
2-Chlorophe	enol	0.022	U	mg/L	EPA 8			09/27	<b>GV</b>
1,3-Dichlor	robenzene	0.022	U	mg/L	EPA 8			09/27	<b>GV</b>
1,4-Dichlor		0.022	U	mg/L	EPA 8	B270		09/27	GV
Benzyl Alco		0.022	U	mg/L	EPA 8			09/27	GV
1,2-Dichlor		0.022	Ü	mg/L	EPA 8			09/27	
2-Methylphe		0.022	U	mg/L	EPA 8			09/27	G <b>V</b>
	coisopropyl)e	0.022	U	mg/L	EPA 8			09/27	GV
4-Methylphe		0.022	U	mg/L	EPA (			09/27	GV
	ii-n-Propylam	0.022	U	mg/L	EPA (			09/27	G <b>V</b>
Hexachloroe		0.022	U	mg/L	EPA (			09/27	G <b>V</b>
Nitrobenzer	<i>i</i> e	0.022	Ü	mg/L	EPA (			09/27	GV
Isophorone	_	0.022	U	mg/L	EPA (			09/27	G <b>V</b>
2-Nitropher		0.022	Ü	mg/L	EPA (			09/27	g <b>v</b> Gv
2,4-Dimethy		0.022	Ü	mg/L	EPA			09/27	GV GV
Benzoic Aci		0.022	U	mg/L	EPA			09/27 09/27	G <b>V</b>
	coethoxy)Meth	0.022	U	mg/L	EPA				G <b>V</b>
2,4-Dichlor		0.022	U	mg/L	EPA			09/27	G <b>V</b>
	lorobenzene	0.022	U	mg/L	EPA			09/27	GV
Naphthalene		0.022	U	mg/L	EPA			09/27	G <b>V</b>
4-Chloroan		0.022	U	mg/L	EPA				GV
Hexachloro		0.022	U	mg/L	EPA			09/27	G <b>V</b>
	-Methylphenol	0.022	U	mg/L		8270		09/27	GV
2-Methylnar		0.022	U	mg/L		8270 8270		09/27	GV GV
	cyclopentadie	0.022	Ü	mg/L		8270		09/27	GV
	nlorophenol	0.022	U	mg/L		8270		09/27	G <b>V</b>
	nlorophenol	0.022	U	mg/L		8270		09/27	GV
?-Chlorona	bucuareue	0.022	U	mg/L	LFA	0270	03/03	. 07/21	0.4





**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

**5633 B STREE** ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Chemlab Ref.# Client Sample ID :LON SS13 SW01

:93.4429-2

Matrix :WATER	DWOI						
Matrix :WATER							
2-Nitroaniline	0.022	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
Dimethylphthalate	0.022	Ŭ	ng/L	EPA 8270		09/03 09/27	G₹
Acenaphthylene		Ū	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
2,6-Dinitrotoluene		Ü	mg/L	EPA 8270		09/03 09/27	GV
3-Nitroaniline	0.022	U	mg/L	EPA 8270		09/03 09/27	GV
Acenaphthene	0.022	Ū	mg/L	EPA 8270		09/03 09/27	GV
2,4-Dinitrophenol	0.022	U	mg/L	EPA 8270		09/03 09/27	GV
4-Nitrophenol	0.022	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
Dibenzofuran		U	mg/L	EPA 8270		09/03 09/27	GV
2,4-Dinitrotoluene	0.022	U	mg/L	EPA 8270		09/03 09/27	GV
Diethylphthalate	0.022	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
4-Chlorophenyl-Phenylet	0.022	U	mg/L	EPA 8270		09/03 09/27	GV
Fluorene	0.022	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
4-Nitroaniline	0.022	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
4,6-Dinitro-2-Methylphe	0.022	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
n-Nitrosodiphenylamine	0.022	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
4-Bromophenyl-Phenyleth	0.022	U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>
Hexachlorobenzene	0.022	U	mg/L	EPA 8270		09/03 09/27	GV
Pentachlorophenol	0.022	U	mg/L	EPA 8270		09/03 09/27	GV
Phenanthrene		U	mg/L	EIPA 8270		09/03 09/27	GV .
Anthracene		U	mg/L	EPA 8270		09/03 09/27	GV
di-n-Butylphthalate		U	mg/L	EPA 8270		09/03 09/27	GV
Fluoranthene		U	mg/L	EPA 8270		09/03 09/27	
Pyrene		U	mg/L	EPA 8270		09/03 09/27	
Butylbenzylphthalate		U	mg/L	EPA 8270		09/03 09/27	GV
3,3-Dichlorobenzidine	0.022		mg/L	EPA 8270		09/03 09/27	GV
Benzo(a)Anthracene	0.022		mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Chrysene		U	mg/L	EPA 8270		09/03 09/27	GV
bis(2-Ethylhexyl)Phthal	0.022		mg/L	EPA 8270		09/03 09/27	GV
di-n-Octylphthalate	0.022		mg/L	EPA 8270		09/03 09/27	GV
Benzo(b)Fluoranthene	0.022		mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Benzo(k)Fluoranthene	0.022		mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Benzo(a)Pyrene	0.022		mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Indeno(1,2,3-cd)Pyrene	0.022		mg/L	EPA 8270		09/03 09/27	G <b>V</b>
Dibenz(a,h)Anthracene	0.022		mg/L	EPA 8270		09/03 09/27	GV GV
Benzo(g,h,i)Perylene	0.022	U	mg/L	EPA 8270		09/03 09/27	GV
moc Nameumachla				EPA 9060	n/a		
TOC, NonpurgableTOC Range	33.5-36.5		mg/L	EPA 9060	11,7 G	09/10	CMR
TOC Kange TOC Concentration	34.6		mg/L	EPA 9060		09/10	CMR
Too concentration	24.0		mg/ L	MA 7000		,	
Residue, Non-Filterable	8.5		mg/L	EPA 160.2		09/02 09/02	GPP
Residue, Filterable (TDS)	846		mg/L	EPA 160.1	500	09/10	RJK
Veginde't ifferante(102)	040		1119/ L			· <del>-</del> -	

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above

ICF ID F&BI Number	LON-SS13-S01 1106	LON-SS13-SD01 1104	LON-SS13-SD02 1108	confide
Sample Type	soil	soil	soil	6149
Date Received	8/27/93	8/27/93	8/27/93	10-5
% Dry Weight	92	52	83	•
Sequence Date	#6-08/29/93	#6-08/29/93	#6-08/29/93	
Leaded Gas				
JP-4	< 50	<100	< 60	
Lube Oil	<110	< 190	220	
Diesel	<50	150-oit 2/00	120 1905	
Spike Level	100	20 011 2/66	(20),-0	
Unknown Semi-volatile				
Pentacosane	85	97	140	
Sequence Date	83	37	140	
PCB 1221				
PCB 1221 PCB 1232				
PCB 1016				
PCB 1242				
PCB 1248				
PCB 1254				
PCB 1260				
Spike Level				
Dibutyl Chlorendate				
Sequence Date				
alpha-BHC				
beta-BHC				
gamma-BHC				
delta-BHC				
Heptachlor				
Aldrin				
Heptachlor Epoxide				
Endosulfan l				
DDE				
Dieldrin				
Endrin				
Endosulfan II				
DDD				
Endrin Aldehyde				
DDT				
Endosulfan Sulfate				
Endrin Ketone				
Methoxy Chlor				
Chlordane				
Dibutyl Chlorendate				
Spike Level				
Vol Sequence	2-08/28/93, #3&4-08/31	2-08/28/93, #3&4-08/31/93		#
CCI4	< 0.02	<0.02 <0.04	< 0.02	
TCA	< 0.02	€0.02	< 0.02	
Benzene	< 0.02	<del>&lt;0.</del> 02	<0.2	
TCE	< 0.02	<0.02	< 0.02	
Toluene	< 0.02	<0.02 <0.02	< 0.2	
PCE	< 0.02	≤0.02 ≤0.02	< 0.02	
Ethylbenzene	< 0.02	€0.02 ¥	< 0.2	
Xylenes	< 0.04	€0.02 <b>\</b>	< 0.4	
Gasoline	<2丁	<2 c4J	40 diesel <b>J</b>	
Spike level	~25	~ 2 67 3	40 diesei <b>J</b>	
BFB	103	105 10	O autoida raccuse: 15	imi+c
טרס	103	105 18	30 outside recovery li	mmts

	LON-SS13-SD03	LON-SS13-2SD04	LON-SS13-2SD05
ICF ID	1102	1764	لم LON-SS13-2SD05 المريسة 1765
F&BI Number	soil	soil	soil w as
Sample Type	8/27/93	9/5/93	9/5/93
Date Received	88	63	66
% Dry Weight	#6-08/29/93	#5-09/06/93	#5-09/06/93
Sequence Date	#6-08/29/93	#5-05/00/55	<i>110</i> 00/00/00
Leaded Gas	<b>.</b> CO	<100	< 100
JP-4	<60	<200	<200
Lube Oil	<110	<200 ≤100 <80	<100 < 80
Diesel	1 <del>00 of</del> < 60	5400 400	>>00 =01
Spike Level			
Unknown Semi-volatile	0.4	110	120
Pentacosane	94	110	120
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			<del>-</del>
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level		_	
Vol Sequence	2-08/28/93, #3&4-08/31/93	3	
CCI4	< 0.02		
TCA	< 0.02		
Benzene	< 0.02		
TCE	< 0.02		
Toluene	< 0.02		
PCE	< 0.02		
Ethylbenzene	< 0.02		
Xylenes	< 0.04		
Gasoline	<2 丁		
Spike level			
BFB	85		

ICF ID	LON-SS13-2SD06	LON-SS13-SW01	LON-SS13-SW01
F&Bl Number	1766	1110	1112 Cor
Sample Type	soil	water	water 🕌
Date Received	9/5/93	8/29/93	8/29/93
% Dry Weight	89		
Sequence Date	#5-09/06/93	#5-08/30/93	
Leaded Gas			
JP-4	< 60	< 200	
Lube Oil	<120	< 2000	
Diesel	< 60	<200 c/000J	
Spike Level			
Unknown Semi-volatile			
Pentacosane	110	41 outside recovery limits	
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone		•	
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence			#1&2-08/28/93
CCI4			<1
TCA			<1
Benzene			<1
TCE		1	<1
Toluene			<1
PCE			<1
Ethylbenzene			<1
Xylenes			<2
Gasoline			<50ブ
Spike level			< 30 A
BFB			. 113
UI B			. 113

			55\$7-3445
ICF ID	LON-SS13-SW02	LON-SS13-SW02	LON-S <del>S13</del> -S <del>W03</del>
F&BI Number	1114	1116	1020
Sample Type	water	water	soil by
Date Received	8/29/93	8/29/93	8/27/93
% Dry Weight			100
Sequence Date	#5-08/30/93		#6-08/29/93
Leaded Gas			
JP-4	< 200		< 50
Lube Oil	< 2000		260
Diesel	5200 2/000		90 oil <b>√</b>
Spike Level			
Unknown Semi-volatile			
Pentacosane	65		108
Sequence Date			#6-08/29/93
PCB 1221			< 0.1
PCB 1232			< 0.1
PCB 1016			< 0.1
PCB 1242			< 0.1
PCB 1248			< 0.1
PCB 1254			< 0.1
PCB 1260			< 0.1
Spike Level			
•			108
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan I			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level		#1&2-08/28/93	#1&2-08/28/93
Vol Sequence		<1	< 0.02
CCI4		<1	< 0.02
TCA		<1	< 0.02
Benzene		<1	
TCE		<1	< 0.02
Toluene		<1	< 0.02
PCE		2	< 0.02
Ethylbenzene		4 J	< 0.2
Xylenes		<50 <b>J</b>	6 diesel $\mathcal{T}$
Gasoline		<b>\</b> 50 <b>\</b>	o diosoity
Spike level		125	117
BFB		120	117

	ICF ID	LON-SS13-SW03	LON-SS13-SW03	
	F&BI Number	1118	1120	
	Sample Type	water	water	
	Date Received	8/29/93	8/29/93	
	% Dry Weight			
	Sequence Date	#5-08/30/93		
•	Leaded Gas			
	JP-4	< 200		
	Lube Oil	< 2000		
	Diesel	<200 ≥1000 J		
	Spike Level	-		
	Unknown Semi-volatile			
	Pentacosane	50 outside recovery limits		
	Sequence Date			
	PCB 1221			
	PCB 1232			
	PCB 1016			
	PCB 1242			
	PCB 1248			
	PCB 1254			
	PCB 1260			
	Spike Level			
	Dibutyl Chlorendate			
	Sequence Date			
	alpha-BHC			
	beta-BHC			
	gamma-BHC			
	delta-BHC			
	Heptachlor			
	Aldrin			
	Heptachlor Epoxide			
	Endosulfan I			
	DDE			
	Dieldrin			
	Endrin			
	Endosulfan II			
	DDD			
	Endrin Aldehyde			
	DDT			
	Endosulfan Sulfate			
	Endrin Ketone			
	Methoxy Chlor			
	Chlordane			
	Dibutyl Chlorendate			
	Spike Level			
	Vol Sequence		#1&2-08/28/93	
	CCI4		<1	
	TCA		<1	
	Benzene		<1	
	TCE		<1	:
	Toluene		3	
	PCE		<1	
	Ethylbenzene		<1	
•	Xylenes		18 T	
	Gasoline		<50√	
	Spike level			
	BFB		117	

ANALYTICAL DATA SHEETS FOR BACKGROUND (BKGD)

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

:93.4506-3 chemlab Ref.# Client Sample ID :LON-BKGD-S01

:SOIL Matrix

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

PWSID

Ordered By :RAY MORRIS Project Name Project#

:ICF KAISER ENGINEERING

:DEW LINE :LONELY :UA

WORK Order :70353

Report Completed :10/12/93

:08/25/93 @ 18:00 hrs. Collected Received :08/31/93 @ 15:10 hrs.

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, J.M., AND PETER M.G.

			QC			Allowable	Ext.	Anal	
	Parameter	Results		Units	Method	Limits	Date	Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.300	U	mg/Kg	EPA 8260		09/01	09/04	SGM
	Bromobenzene	0.300	Ü	mg/Kg	EPA 8260			09/04	SGM
	Bromochloromethane	0.300	Ü	mg/Kg	EPA 8260		09/01	09/04	SGM
	Bromodichloromethane	0.300	Ü	mg/Kg	EPA 8260			09/04	SGM
	Bromoform	0.300	Ü	mg/Kg	EPA 8260			09/04	SGM
	Bromomethane	0.300	Ü	mg/Kg	EPA 8260		09/01	09/04	SGM
	n-Butylbenzene	0.300	Ŭ	mg/Kg	EPA 8260		09/01	09/04	SGM
	sec-Butylbenzene	0.300	Ü	mg/Kg	EPA 8260			09/04	SGM
	tert-Butylbenzne	0.300	ū	mg/Kg	EPA 8260		09/01	09/04	SGM
	Carbon Tetrachloride	0.300	U	mg/Kg	EPA 8260		09/01	09/04	SGM
T.	Chlorobenzene	0.300	U	mg/Kg	EPA 8260		09/01	09/04	SGM
	Chloroethane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	Chloroform	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	Chloromethane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	2-Chlorotoluene	0.300	ប	mg/Kg	EPA 8260			09/04	SGM
	4-Chlorotoluene	0.300	U	mg/Kg	EPA 8260			09/04	. SGM
	Dibromochloromethane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	12Dibromo3Chloropropane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,2-Dibromoethane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	Dibromomethane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,2-Dichlorobenzene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,3-Dichlorobenzene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,4-Dichlorobenzene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	Dichlorodifluoromethane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,1-Dichloroethane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,2-Dichloroethane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,1-Dichloroethene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	cis-1,2-Dichloroethene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	trans1,2-Dichloroethene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,2-Dichloropropane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,3-Dichloropropane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	2,2-Dichloropropane	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	1,1-Dichloropropene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	Ethylbenzene	0.300	U	mg/Kg	EPA 8260			09/04	SGM SGM
	Hexachlorobutadiene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	Isopropylbenzene	0.300	U	mg/Kg	EPA 8260			09/04	SGM
	p-Isopropyltoluene	0.300	U	mg/Kg	EPA 8260		09/01	09/04	วเก



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4506-3

Client Sample ID :LON-BKGD-S01

Matrix :SOIL

5633 B STREE ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Methylene Chloride	0.300 U	mg/Kg	EPA 8260	09/01 09/04	SGM
Napthalene	0.300 U		EPA 8260	09/01 09/04	SGM
n-Propylbenzene	0.300 U	mg/Kg	EPA 8260	09/01 09/04	SGM
Styrene	0.300 U	mg/Kg	EPA 8260	09/01 09/04	SGM
1112-Tetrachloroethane	0.300 U		EPA 8260	09/01 09/04	SGM
1122-Tetrachloroethane	0.300		EPA 8260	09/01 09/04	SGM
Tetrachloroethene	0.300		EPA 8260	09/01 09/04	SGM
Toluene	0.300 0		EPA 8260	09/01 09/04	SGM
1,2,3-Trichlorobenzene	0.300 t		EPA 8260	09/01 09/04	SGM
1,2,4-Trichlorobenzene	0.300 U		EPA 8260	09/01 09/04	SGM
1,1,1-Trichloroethane	0.300 U		EPA 8260	09/01 09/04	SGM
1,1,2-Trichloroethane	0.300		EPA 8260	09/01 09/04	SGM
Trichloroethene	0.300	<b>3</b> . <b>2</b>	EPA 8260	09/01 09/04	SGM
Trichlorofluoromethane	0.300 t		EPA 8260	09/01 09/04	SGM
1,2,3-Trichloropropane	0.300 t		EPA 8260	09/01 09/04	SGM
1,2,4-Trimethylbenzene	0.300		EPA 8260	09/01 09/04	SGM
1,3,5-Trimethylbenzene	0.300	3,	EPA 8260	09/01 09/04	SGM
Vinyl Chloride	0.300		EPA 8260	09/01 09/04	SGM
p+m-Xylene	0.300 (	J. J	EPA 8260	09/01 09/04	SGM
o-Xylene	0.300 t		EPA 8260	09/01 09/04	SGM
o ny tene	0.000			•	
Semivolatile Organics			EPA 8270		
Phenol	20.0 t	j mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
bis(2-Chloroethyl)ether	<b>20.</b> 0 t		EPA 8270	09/08 10/06	
2-Chlorophenol	20.0 t		EPA 8270	09/08 10/06	
1,3-Dichlorobenzene	20.0 t		EPA 8270	09/08 10/06	<b>GV</b>
1,4-Dichlorobenzene	20.0		EPA 8270	09/08 10/06	<b>GV</b>
Benzyl Alcohol	20.0		EPA 8270	09/08 10/06	<b>GV</b>
1,2-Dichlorobenzene	20.0		EPA 8270	09/08 10/06	<b>GV</b>
2-Methylphenol	20.0	J	EPA 8270	09/08 10/06	<b>GV</b>
bis(2-Chloroisopropyl)e	20.0		EPA 8270	09/08 10/06	<b>GV</b>
4-Methylphenol	20.0 t	J	EPA 8270	09/08 10/06	G <b>V</b>
n-Nitroso-di-n-Propylam	20.0		EPA 8270	09/08 10/06	GV
Hexachloroethane	20.0		EPA 8270	09/08 10/06	G <b>V</b>
Nitrobenzene		J mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
Isophorone		J mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
2-Nitrophenol		J mg/Kg	EPA 8270	09/08 10/06	GV
2,4-Dimethylphenol		J mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
Benzoic Acid		J mg/Kg	EPA 8270	09/08 10/06	G₩
bis(2-Chloroethoxy)Meth		J mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
2,4-Dichlorophenol	= = = = =	u mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
1,2,4-Trichlorobenzene		J mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
Naphthalene		J mg/Kg	EPA 8270	09/08 10/06	GV
4-Chloroaniline		J mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
Hexachlorobutadiene		U mg/Kg	EPA 8270	09/08 10/06	GV
4-Chloro-3-Methylphenol		U mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
2-Methylnaphthalene		U mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
Hexachlorocyclopentadie		U mg/Kg	EPA 8270	09/08 10/06	G <b>V</b>
2,4,6-Trichlorophenol		U mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
2,4,5-Trichlorophenol		U mg/Kg	EPA 8270	09/08 10/06	G <b>V</b>
2-Chloronaphthalene		U mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
		J 3		•	
					-



# COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

	REPORT of ANALYSIS	-
Ce 1908	REPORT OF AUGUST	5633 B STREET ANCHORAGE, AK 99518
Chemlab Ref. # :93.4506-3		TEL: (907) 562-2343
Client Sample ID :LON-BKGD-S01	0 16 C : L	FAX: (907) 561-5301
Matrix :SOIL	andfu Count	
2	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
2-Nitroaniline	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Dimethylphthalate	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Acenaphthylene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
2,6-Dinitrotoluene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
3-Nitroaniline	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Acenaphthene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
2,4-Dinitrophenol	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
4-Nitrophenol	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Dibenzofuran	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
2,4-Dinitrotoluene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Diethylphthalate	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
4-Chlorophenyl-Phenylet	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Fluorene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
4-Nitroaniline	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
4,6-Dinitro-2-Methylphe	20.0 II mg/Kg EPA 8270	09/08 1 <b>0/06 GV</b>
n-Nitrosodiphenylamine	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
4-Bromophenyl-Phenyleth	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Hexachlorobenzene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Pentachlorophenol	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Phenanthrene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Anthracene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
di-n-Butylphthalate	20 0 11 mg/Kg EPA 8270	09/08 10/06 GV
luoranthene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Pyrene Pyrene	20 0 11 mg/Kg EPA 8270	09/08 10/06 GV
Butylbenzylphthalate	20 0 U mg/Kg EPA 8270	09/08 10/06 GV
3,3-Dichlorobenzidine	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Benzo(a)Anthracene	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Chrysene bis(2-Ethylhexyl)Phthal	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
di-n-Octylphthalate	20.0 U mg/Kg EPA 8270	09/08 10/06 GV
Benzo(b)Fluoranthene	20.0 ti mg/Kg EPA 8270	09/08 10/06 GV 09/08 10/06 GV
Benzo(k)Fluoranthene	20 0 11 mg/Kg EPA 8270	••, •• -•, ••
Benzo(a)Pyrene	20 0 11 mg/Kg EPA 8270	03,00 = 0,00
Indeno(1,2,3-cd)Pyrene	20.0 U mg/Kg EPA 8270	
Dibenz(a,h)Anthracene	20.0 U mg/Kg EPA 8270	00,00
Benzo(g,h,i)Perylene	20.0 U mg/Kg EPA 8270	09/08 10/06 <b>GV</b>
Ben20(g, 11, 17, c1) 10		
Sample Preparation	EPA 3050 Digest	
Total Metals Analysis		
ICP Screen, ICF	EPA n/a	09/09 09/23 DFL
Aluminum	3600 mg/Kg EPA 6010	09/09 09/23 DFL
Antimony	84 U mg/Kg EPA 6010	09/09 09/23 DFL
Arsenic	8.4 U mg/Kg EPA 6010	09/09 09/23 JBH
Barium	165 mg/Kg EPA 6010	09/09 09/23 JBH
Beryllium	4.2 U mg/Kg EPA 6010	09/09 09/23 JBH
Cadmium	4.2 U J mg/Kg J.2 EPA 6010	09/09 09/23 JBH
Calcium	9900 mg/Kg EPA 6010	09/09 09/23 JBH
Chromium	7.5 mg/Kg EPA 6010	09/09 09/23 JBH
Cobalt	8.4 U mg/Kg EPA 6010	09/09 09/23 JBH
Copper	11 mg/Kg EPA 6010 10800 mg/Kg EPA 6010	09/09 09/23 JBH
Iron	10000	00,00 00,00
	All days s.c 2/1	(0.11
<del></del>	Ali dep s.c 2/1	r 194
	U 23, 3	· 1



ENVIRONMENTAL LABORATORY SERVICES

5-MCE 1908			REP(	ORT of AN	ALYSIS				
Chemlab Ref.#	:93.4506-3							5833 B ST	
Client Sample II	D :LON-BKGD-S01							ORAGE, AK 9 EL: (907) 562	
Matrix	:SOIL		ي	Justifier (	ownert			AX: (907) 561	
Lead		0.4	• •	""-			00/00	00/22	71711
		8.4	U	mg/Kg		6010		09/23	JBH
Magnesium		1300		mg/Kg	EPA	6010		09/23	JBH
Manganese		51		mg/Kg	EPA	6010	09/09	09/23	JBH
Molybdenum		4.2	U	mg/Kg	EPA	6010	09/09	09/23	JBH
Nickel		24		mg/Kg		6010	09/09	09/23	<b>JBH</b>
Potassium		420	U.	SAMB/Kg		6010		09/24	DFL
Selenium		84		K mg/Kg 3	: -	6010		09/23	DFL
Silver		42	ii i	R mg/KgB		6010		09/23	DFL
Sodium		410	•	mg/Kg		6010		09/24	DFL
Thallium			U				- · · •	•	
		0.44	U	mg/Kg		7841		09/10	KAW
Vanadium		17		mg/Kg		6010		09/23	DFL
Zinc		20		mg/Kg	EPA	6010	09/09	09/23	DFL
TOC, Soil	3	55000		mg/Kg	PSEP 1	Ref Lab		09/30	

All chaps in sholat

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than



SSS Member of the SGS Group (Société Générale de Surveillance)



## COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4504-6

REPORT of ANALYSIS

Client Sample ID :LON-BKGD-SD01 Matrix

:SOIL

5633 B S~ ANCHORAGE, AK TEL: (907) 560 FAX: (907) 56

Client Name

:ICF KAISER ENGINEERING

Ordered By :RAY MORRIS Project Name :DEW LINE

Project# : LONELY PWSID :UA

WORK Order :70357

Report Completed :11/03/93

Collected :08/25/93 0 15:00 Received :08/31/93 Technical Director: STEPHEN, C. EDE @ 15:10

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G.

Parameter	QC Results Qual Units	Method	Allowable Ext. Anal Limits Date Date
Volatile Organics Benzene Bromobenzene Bromochloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chlorotoluene Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropane	0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg 0.050 U mg/Kg	EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260	09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04 09/01 09/04



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# Client Sample ID Matrix	:93.4504-6 :LON-BKGD-SD01 :SOIL	REF	PORT of AN	ALYSIS		TE	5633 B STr RAGE, AK 9 L: (907) 562 X: (907) 561	99518 -2343
ead	22		m <b>g∕K</b> g		6010	09/09		DFL
gnesium	7300		mg/Kg	EPA	6010	09/09		DFL
.:anganese	210		mg/Kg	EPA	6010	09/09	09/23	DFL
Molybdenum	2.5	U	mg/Kg	EPA	6010	09/09	09/23	DFL
Nickel	46		mg/Kg	EPA	6010	09/09	09/23	DFL
Potassium	1800		mg/Kg	EPA	6010	09/09	09/23	DFL
Selenium	49	U	mg/Kg	EPA	6010	09/09	09/24	DFL
Silver	25	U	mg/Kg	EPA	6010	09/09	09/23	DFL
Sodium	370		mg/Kg	EPA	6010	09/09	09/24	DFL
Thallium	0.20	U	mq/Kq	EPA	7841	09/09	09/10	KAW
Vanadium	59		mg/Kg	EPA	6010	09/09		DFL
Zinc	95		mg/Kg		6010	09/09		DFL
TOC, Soil	99600		mg/Kg	PSEP F	Ref Lab			

See Special Instructions Above ** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

hemlab Ref.# :93.4504-7

lient Sample ID :LON-BKGD-SD01 DUPLICATE

Matrix

PWSID

:SOIL

Client Name

Ordered By Project Name Project#

:RAY MORRIS :DEW LINE

:ICF KAISER ENGINEERING

: LONELY :UA

WORK Order :70357

Report Completed :11/03/93 Collected :08/25/93

@ 15:00 hrs Received :08/31/93 @ 15:10 hrs

5633 B STREET ANCHORAGE, AK 99518

TEL: (907) 562-2343 FAX: (907) 561-5301

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits		Anal Date	Init
Sample Preparation Total Metals Analysis ICP Screen, ICF Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	23000 48 4.8 370 24 24 4700 45 12 45 31000 21 7300 210 2.4 45 1600 48 24 350 0.20 0.56 93	ט ט ט	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA 3050 Digest  EPA EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010	n/a	09/09 09/09	09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23 09/23	DFL DFL DFL DFL DFL DFL DFL DFL DFL DFL

See Sample Remarks Above

= Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than



🔰 565 Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above

⁼ Undetected, Reported value is the practical quantification limit.



ENVIRONMENTAL LABORATORY SERVICES

Matrix

REPORT of ANALYSIS

Chemlab Ref.# :93.4504-8

Client Sample ID :LON-BKGD-SD01 SPIKE

:SOIL

:ICF KAISER ENGINEERING

Ordered By Project Name

Client Name

:RAY MORRIS

Project# PWSID

:DEW LINE :LONELY :UA

WORK Order :70357 Report Completed :11/03/93

Collected Received

:08/25/93

9 15:00 hrs :08/31/93 @ 15:10 hrs

ANCHOPAGE, AK S

F4X: 907) 561-5301

Technical Director: STEPHEN C. EDE

Released By :/

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G.

FOR SPIKING LEVELS AND PERCENT RECOVERIES, SEE QA/QC PACKAGE. J = INDICATES AN

ANALYTE WHOSE CONCENTRATION IS ESTMATED BECAUSE THE ANALYTE'S

CONCENTRATION IS DETECTED BELOW THE CALIBRATION RANGE.

Volatile Organics	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Benzene	 Volatile Organics				EPA 8260				
Bromobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Bromochloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Bromochloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Bromoform 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Bromomethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Bromomethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Bromomethane 0.222 mg/Kg EPA 8260 09/01 09/04 SGM SGM SGC-Butylbenzene 0.222 mg/Kg EPA 8260 09/01 09/04 SGM SGC-Butylbenzene 0.145 mg/Kg EPA 8260 09/01 09/04 SGM SGC-Butylbenzene 0.145 mg/Kg EPA 8260 09/01 09/04 SGM SGC-Butylbenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Chlorobenzene 1.01 mg/Kg EPA 8260 09/01 09/04 SGM Chlorobenzene 1.01 mg/Kg EPA 8260 09/01 09/04 SGM Chlorobenzene 1.01 mg/Kg EPA 8260 09/01 09/04 SGM Chlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Chlorothane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Chlorothane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Chlorothane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Chloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 5-Chloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-D		1.04		ma/Ka			09/01	09/04	SGM
Bromochloromethane	Bromobenzene		U						
Bromodichloromethane	Bromochloromethane		U						
Bromoform 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Bromomethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM n-Butylbenzene 0.222 mg/kg EPA 8260 09/01 09/04 SGM sec-Butylbenzene 0.145 mg/kg EPA 8260 09/01 09/04 SGM sec-Butylbenzene 0.145 mg/kg EPA 8260 09/01 09/04 SGM sec-Butylbenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Carbon Tetrachloride 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chlorobenzene 1.01 mg/kg EPA 8260 09/01 09/04 SGM Chlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chloroform 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chloroform 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 2-Chlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 12Dibromochloromethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 12Dibromochloromethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 12Dibromochloropenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dibromoethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichloropropane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichloropropane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichlorop			Ū						
Bromomethane			Ū						
n-Butylbenzene 0.222 mg/kg EPA 8260 09/01 09/04 sec_Butylbenzene 0.145 mg/kg EPA 8260 09/01 09/04 cert_Butylbenzne 0.050 U mg/kg EPA 8260 09/01 09/04 Carbon Tetrachloride 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chlorobenzene 1.01 mg/kg EPA 8260 09/01 09/04 SGM Chlorobenzene 1.01 mg/kg EPA 8260 09/01 09/04 SGM Chloroform 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chloroform 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chloroform 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chloromethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Chlorotoluene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Dibromochloromethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 12Dibromochloromethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 12Dibromochlane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dibromoethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM Dibromomethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichlorobenzene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.1-Dichloroethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethene 0.671 mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethene 0.671 mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethene 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichloropenane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichloropenane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichloropenane 0.050 U mg/kg EPA 8260 09/01 09/04 SGM 1.3-Dichloropenane 0.050 U mg/kg EPA 8260	Bromomethane		U						
sec-Butylbenzene         0.145         mg/Kg         EPA 8260         09/01 09/04           tert-Butylbenzne         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Carbon Tetrachloride         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Chlorobenzene         1.01         mg/Kg         EPA 8260         09/01 09/04         SGM           Chlorobenzene         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Chloroform         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Chlorotoluene         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           2-Chlorotoluene         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           4-Chlorotoluene         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Dibromoachloromethane         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           1,2-Dibromoachloromethane         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           1,2-Dichlorobenzene         0.050         U mg/Kg         EPA 8260	n-Butylbenzene								
tert-Butylbenzne         0.050         U mg/Kg         EPA 8260         09/01 09/04         Carbon Tetrachloride         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Chlorobenzene         1.01         mg/Kg         EPA 8260         09/01 09/04         SGM           Chlorobethane         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Chloroform         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Chloromethane         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           Chlorotoluene         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           4-Chlorotoluene         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           4-Chlorotoluene         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           12Dibromoachloromethane         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           12Dibromoethane         0.050         U mg/Kg         EPA 8260         09/01 09/04         SGM           1,2-Dichlorobenzene         0.050         U mg/Kg         EPA 8260         09/01 09/04	sec-Butylbenzene	0.145							
Carbon Tetrachloride         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           Chlorobenzene         1.01         mg/Kg         EPA         8260         09/01         09/04         SGM           Chlorothane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           Chlorotoluene         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           2-Chlorotoluene         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           4-Chlorotoluene         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           Dibromochloromethane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           12Dibromochloromethane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           12-Dibromoethane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM	tert-Butylbenzne		U						
Chlorobenzene 1.01 mg/Kg EPA 8260 09/01 09/04 SGM Chloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Chloroform 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Chloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2-Dibromoochloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 12Dibromo3Chloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 12Dibromoethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 12Dibromoethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dibromomethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,3-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,3-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,4-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dichlorodifluoromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1-Dichloropropane 0.050 U mg/Kg EPA	Carbon Tetrachloride	0.050	U						SGM
Chloroethane	Chlorobenzene	1.01							
Chloroform 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Chloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dibromochloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 12Dibromo3Chloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.2-Dibromoethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.2-Dibromoethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.3-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.4-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichlorodifluoromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0.4-Dichloropropane 0.050 U m	Chloroethane	0.050	U						
Chloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dibromochloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dibromo3chloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dibromoethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0/2-Dibromoethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 0/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/4-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/4-Dichloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1/2		0.050	U		EPA 8260				
2-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 4-Chlorotoluene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dibromochloromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 12Dibromo3Chloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.2-Dibromoethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dibromomethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dibromomethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.2-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.3-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.3-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.4-Dichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Dichlorodifluoromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.1-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.1-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.2-Dichloroethene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.3-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.3-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.3-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.3-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 2.2-Dichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM		0.050	U						
4-Chlorotoluene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           Dibromochloromethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           12Dibromo3Chloropropane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,2-Dibromoethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           Dibromoethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,2-Dichlorobenzene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,3-Dichlorobenzene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,4-Dichlorobenzene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,1-Dichloroethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,2-Dichloroethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,1-Dichloroethene         0.671         mg/Kg         EPA 8260         09/01 09/04 SGM           cis-1,2-Dichloroethene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           trans1,2-Dichloropropane         0.050         U mg/Kg <td>2-Chlorotoluene</td> <td>0.050</td> <td>U</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2-Chlorotoluene	0.050	U						
Dibromochloromethane         0.050         U         mg/kg         EPA         8260         09/01         09/04         SGM           12Dibromo3Chloropropane         0.050         U         mg/kg         EPA         8260         09/01         09/04         SGM           1,2-Dibromoethane         0.050         U         mg/kg         EPA         8260         09/01         09/04         SGM           Dibromoethane         0.050         U         mg/kg         EPA         8260         09/01         09/04         SGM           1,2-Dichlorobenzene         0.050         U         mg/kg         EPA         8260         09/01         09/04         SGM           1,4-Dichlorobenzene         0.050         U         mg/kg         EPA         8260         09/01         09/04         SGM           1,1-Dichloroethane         0.050         U         mg/kg         EPA         8260         09/01         09/04         SGM           1,1-Dichloroethane         0.050         U         mg/kg         EPA         8260         09/01         09/04         SGM           1,1-Dichloroethene         0.050         U         mg/kg         EPA         8260         09/01         09/04		0.050	U						
12Dibromo3Chloropropane       0.050       U       mg/kg       EPA       8260       09/01       09/04       SGM         1,2-Dibromoethane       0.050       U       mg/kg       EPA       8260       09/01       09/04       SGM         Dibromomethane       0.050       U       mg/kg       EPA       8260       09/01       09/04       SGM         1,2-Dichlorobenzene       0.050       U       mg/kg       EPA       8260       09/01       09/04       SGM         1,3-Dichlorobenzene       0.050       U       mg/kg       EPA       8260       09/01       09/04       SGM         1,4-Dichlorobenzene       0.050       U       mg/kg       EPA       8260       09/01       09/04       SGM         0ichlorodifluoromethane       0.050       U       mg/kg       EPA       8260       09/01       09/04       SGM         1,1-Dichloroethane       0.050       U       mg/kg       EPA       8260       09/01       09/04       SGM         1,1-Dichloroethene       0.671       mg/kg       EPA       8260       09/01       09/04       SGM         cis-1,2-Dichloroethene       0.050       U       mg/kg       EPA	Dibromochloromethane	0.050	U	mg/Kg	EPA 8260				
1,2-Dibromoethane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         Dibromomethane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,2-Dichlorobenzene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,3-Dichlorobenzene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,4-Dichlorobenzene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         Dichlorodifluoromethane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloroethane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,2-Dichloroethane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloroethene       0.671 mg/Kg       EPA 8260       09/01 09/04 SGM         cis-1,2-Dichloroethene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         transi,2-Dichloroethene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,3-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,3-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM		0.050	U		EPA 8260				
Dibromomethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,2-Dichlorobenzene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,3-Dichlorobenzene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,4-Dichlorobenzene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           Dichlorodifluoromethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,1-Dichloroethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,2-Dichloroethane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,1-Dichloroethene         0.671         mg/Kg         EPA 8260         09/01 09/04 SGM           cis-1,2-Dichloroethene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           trans1,2-Dichloroethene         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,3-Dichloropropane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           2,2-Dichloropropane         0.050         U mg/Kg         EPA 8260         09/01 09/04 SGM           1,1-Dichloropropane         0.050         U mg/K	1,2-Dibromoethane	0.050	U	mg/Kg	EPA 8260				
1,2-Dichlorobenzene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,3-Dichlorobenzene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,4-Dichlorobenzene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         Dichlorodifluoromethane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloroethane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,2-Dichloroethane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloroethene       0.671 mg/Kg       EPA 8260       09/01 09/04 SGM         cis-1,2-Dichloroethene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         trans1,2-Dichloroethene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,3-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         2,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM		0.050	U	mg/Kg	EPA 8260				
1,3-Dichlorobenzene       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,4-Dichlorobenzene       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         Dichlorodifluoromethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,2-Dichloroethane       0.671       mg/Kg       EPA 8260       09/01 09/04       SGM         cis-1,2-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         trans1,2-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,2-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,3-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         2,2-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM		0.050	U	mg/Kg	EPA 8260		09/01	09/04	
1,4-Dichlorobenzene       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         Dichlorodifluoromethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,2-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         cis-1,2-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         trans1,2-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,2-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,3-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         2,2-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM			U	mg/Kg	EPA 8260				
Dichlorodifluoromethane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           1,1-Dichloroethane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           1,2-Dichloroethane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           cis-1,2-Dichloroethane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           trans1,2-Dichloroethane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           1,2-Dichloropropane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           1,3-Dichloropropane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           2,2-Dichloropropane         0.050         U         mg/Kg         EPA         8260         09/01         09/04         SGM           1,1-Dichloropropane         0.050         U         mg/Kg         EPA         8260         09/01 <t< td=""><td></td><td></td><td>U</td><td>mg/Kg</td><td>EPA 8260</td><td></td><td></td><td></td><td></td></t<>			U	mg/Kg	EPA 8260				
1,1-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,2-Dichloroethane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloroethene       0.671       mg/Kg       EPA 8260       09/01 09/04       SGM         cis-1,2-Dichloroethene       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         trans1,2-Dichloroethene       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,2-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,3-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         2,2-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloropropane       0.050       U mg/Kg       EPA 8260       09/01 09/04       SGM			U	mg/Kg	EPA 8260		09/01	09/04	
1,1-Dichloroethene       0.671       mg/Kg       EPA 8260       09/01 09/04       SGM         cis-1,2-Dichloroethene       0.050       U       mg/Kg       EPA 8260       09/01 09/04       SGM         trans1,2-Dichloroethene       0.050       U       mg/Kg       EPA 8260       09/01 09/04       SGM         1,2-Dichloropropane       0.050       U       mg/Kg       EPA 8260       09/01 09/04       SGM         1,3-Dichloropropane       0.050       U       mg/Kg       EPA 8260       09/01 09/04       SGM         2,2-Dichloropropane       0.050       U       mg/Kg       EPA 8260       09/01 09/04       SGM         1,1-Dichloropropene       0.050       U       mg/Kg       EPA 8260       09/01 09/04       SGM			U	mg/Kg	EPA 8260		09/01	09/04	
cis-1,2-Dichloroethene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         trans1,2-Dichloroethene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,3-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         2,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM			U	mg/Kg					
trans1,2-Dichloroethene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,3-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         2,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM				mg/Kg	EPA 8260		09/01	09/04	SGM
1,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,3-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         2,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM			U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,3-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         2,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM	trans1,2-Dichloroethene		U	mg/Kg			09/01	09/04	SGM
2,2-Dichloropropane       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM         1,1-Dichloropropene       0.050 U mg/Kg       EPA 8260       09/01 09/04 SGM	1,2-Dichloropropane		Ū						
1,1-Dichloropropene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM	1,3-Dichloropropane		U			*	09/01	09/04	SGM
			_			•			SGM
Ethylbenzene 0.374 mg/Kg EPA 8260 09/01 09/04 SGM			U						SGM
	Ethylbenzene	0.374		mg/Kg	EPA 8260		09/01	09/04	SGM





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET hemlab Ref.# :93.4504-8 ANCHORAGE, AK 99518 lient Sample ID :LON-BKGD-SD01 SPIKE TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 561-5301 Hexachlorobutadiene 0.050 U mq/Kq EPA 8260 09/01 09/04 SGK. Isopropylbenzene 0.178 EPA 8260 mq/Kq 09/01 09/04 SGM p-Isopropyltoluene 0.106 EPA 8260 09/01 09/04 ma/Ka SGM Methylene Chloride 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Napthalene 0.227 EPA 8260 mg/Kg 09/01 09/04 SGM n-Propylbenzene 0.321 EPA 8260 mg/Kg 09/01 09/04 SGM Styrene 0.050 [] EPA 8260 mg/Kg 09/01 09/04 SGM 1112-Tetrachloroethane 0.050 11 mg/Kg EPA 8260 09/01 09/04 SGM 1122-Tetrachloroethane 0.050 H mg/Kg EPA 8260 09/01 09/04 SGM Tetrachloroethene 0.050 П mq/Kq EPA 8260 09/01 09/04 SGM Toluene 1.10 mg/Kg EPA 8260 09/01 09/04 SGM 1,2,3-Trichlorobenzene 0.050 U EPA 8260 mg/Kg 09/01 09/04 SGM 1,2,4-Trichlorobenzene 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,1,1-Trichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1.1.2-Trichloroethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM Trichloroethene 0.890 ma/Ka EPA 8260 09/01 09/04 SGM Trichlorofluoromethane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2,3-Trichloropropane 0.050 U mg/Kg EPA 8260 09/01 09/04 SGM 1,2,4-Trimethylbenzene 0.992 ma/Ka EPA 8260 09/01 09/04 SGM 1,3,5-Trimethylbenzene 0.418 ma/Ka EPA 8260 09/01 09/04 SGM Vinyl Chloride 0.050 U ma/Ka EPA 8260 09/01 09/04 SGM p+m-Xylene 1.61 ma/Ka EPA 8260 09/01 09/04 SGM o-Xylene 0.733 EPA 8260 mg/Kg 09/01 09/04 SGM Semivolatile Organics EPA 8270 Phenol 1.99 J EPA 8270 mq/Ka 09/08 10/07 GV bis(2-Chloroethyl)ether 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 2-Chlorophenol 1.62 J mg/Kg EPA 8270 09/08 10/07 GV 1,3-Dichlorobenzene 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 1,4-Dichlorobenzene 1.32 J EPA 8270 09/08 10/07 mq/Kq  ${\tt GV}$ Benzyl Alcohol 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 1,2-Dichlorobenzene 5.00 H mg/Kg EPA 8270 09/08 10/07 GV 2-Methylphenol 5.00 U EPA 8270 mg/Kg 09/08 10/07 GV bis(2-Chloroisopropyl)e 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 4-Methylphenol 5.00 U EPA 8270 mg/Kg 09/08 10/07 GV n-Nitroso-di-n-Propylam 2.78 .T EPA 8270 mg/Kg 09/08 10/07 GV Hexachloroethane 5.00 H EPA 8270 mg/Kg 09/08 10/07 GV Nitrobenzene 5.00 U EPA 8270 mg/Kg 09/08 10/07 GV Isophorone 5.00 U ma/Ka EPA 8270 09/08 10/07 GV 2-Nitrophenol 5.00 H mg/Kg EPA 8270 09/08 10/07 GV 2,4-Dimethylphenol 5.00 H mq/Kq EPA 8270 09/08 10/07 GV Benzoic Acid 5.00 U mq/Kq EPA 8270 09/08 10/07 GV bis(2-Chloroethoxy)Meth 5.00 U ma/Ka EPA 8270 09/08 10/07 GV 2,4-Dichlorophenol 5.00 U EPA 8270 09/08 10/07 ma/Ka GV 1,2,4-Trichlorobenzene 1.79 J mq/Kq **EPA 8270** 09/08 10/07 GV Naphthalene 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 4-Chloroaniline 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Hexachlorobutadiene 5.00 U EPA 8270 mg/Kg 09/08 10/07 GV 4-Chloro-3-Methylphenol 2.10 J mg/Kg EPA 8270 09/08 10/07 GV 2-Methylnaphthalene 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Hexachlorocyclopentadie 5.00 H mg/Kg EPA 8270 09/08 10/07 GV





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemiab Ref.# :93.4504-8 5633 B STA ANCHORAGE, AK 9 Client Sample ID :LON-BKGD-SD01 SPIKE TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 551-5301 2.4.6-Trichlorophenol 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 2,4,5-Trichlorophenol 5.00 U mq/Kq EPA 8270 09/08 10/07 GV 2-Chloronaphthalene 5.00 U ma/Ka EPA 8270 09/08 10/07 GV 2-Nitroaniline 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Dimethylphthalate 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Acenaphthylene 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 2,6-Dinitrotoluene 5.00 IJ mg/Kg EPA 8270 09/08 10/07 GV 3-Nitroaniline 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Acenaphthene 2.31 J ma/Ka EPA 8270 09/08 10/07 GV 2,4-Dinitrophenol 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 4-Nitrophenol 1.60 J EPA 8270 mg/Kg 09/08 10/07 GV Dibenzofuran 5.00 U EPA 8270 mg/Kg 09/08 10/07 GV 2.4-Dinitrotoluene 1.73 Ĵ mq/Kq EPA 8270 09/08 10/07 GV Diethylphthalate 5.00 U EPA 8270 ma/Ka 09/08 10/07 GV 5.00 4-Chlorophenyl-Phenylet U mg/Kg EPA 8270 09/08 10/07 GV Fluorene 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 4-Nitroaniline 5.00 H EPA 8270 mg/Kg 09/08 10/07 GV 4,6-Dinitro-2-Methylphe 5.00 U mq/Kq EPA 8270 09/08 10/07 GV n-Nitrosodiphenylamine 5.00 U mg/Kg EPA 8270 09/08 10/07 GV 4-Bromophenyl-Phenyleth 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Hexachlorobenzene 5.00 U ma/Ka EPA 8270 09/08 10/07 GV Pentachlorophenol 5.00 TI mq/Kq EPA 8270 09/08 10/07 GV Phenanthrene 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Anthracene 5.00 U mg/Kg EPA 8270 09/08 10/07 di-n-Butylphthalate 3.54 J mg/Kg EPA 8270 09/08 10/07 Fluoranthene 5.00 U EPA 8270 09/08 10/07 mq/Kq Ğ۷ Pyrene 2.46 J mq/Kq EPA 8270 09/08 10/07 GV Butylbenzylphthalate 5.00 U ma/Ka EPA 8270 09/08 10/07 GV 3,3-Dichlorobenzidine 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Benzo(a)Anthracene 5.00 U mq/Kq EPA 8270 09/08 10/07 GV Chrysene 5.00 11 **EPA** 8270 mg/Kg 09/08 10/07 GV bis(2-Ethylhexyl)Phthal 5.00 U mg/Kg EPA 8270 09/08 10/07 GV di-n-Octylphthalate 5.00 H ma/Ka EPA 8270 09/08 10/07 GV Benzo(b)Fluoranthene 5.00 U mg/Kg 09/08 10/07 EPA 8270 GV Benzo(k)Fluoranthene 5.00 U ma/Ka EPA 8270 09/08 10/07 GV Benzo(a)Pyrene 5.00 U ma/Ka EPA 8270 09/08 10/07 GV Indeno(1,2,3-cd)Pyrene 5.00 ma/Ka EPA 8270 09/08 10/07 GV Dibenz(a,h)Anthracene 5.00 U mg/Kg EPA 8270 09/08 10/07 GV Benzo(g,h,i)Perylene 5.00 [] EPA 8270 mg/Kg 09/08 10/07 GV Sample Preparation EPA 3050 Digest Total Metals Analysis ICP Screen, ICF EPA n/a Aluminum 23000 ma/Ka EPA 6010 09/09 09/23 DFL Antimony 48 U ma/Ka EPA 6010 09/09 09/23 DFL Arsenic 89 mg/Kg EPA 6010 09/09 09/23 DFL Barium 460 mg/Kg EPA 6010 09/09 09/23 DFL Beryllium 42 mq/Kq EPA 6010 09/09 09/23 DFL Cadmium 53 ma/Ka EPA 6010 09/09 09/23 DFL Calcium 5800 09/09 09/23 mq/Kq EPA 6010 DFL Chromium 136 09/09 09/23 ma/Ka EPA 6010 DFL





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# 5633 B STREET :93.4504-8 ANCHORAGE, AK 99518 Client Sample ID :LON-BKGD-SD01 SPIKE TEL: (907) 562-2343 Matrix :SOIL FAX: (907) 561-5301 Cobalt 96 mg/Kg EPA 6010 09/09 09/23 DFL Copper 140 mg/Kg EPA 6010 09/09 09/23 DFL Iron 32000 mg/Kg EPA 6010 09/09 09/23 DFL Lead 100 mg/Kg EPA 6010 09/09 09/23 DFL Magnesium 8400 mg/Kg EPA 6010 09/09 09/23 DFL Manganese 300 mg/Kg EPA 6010 09/09 09/23 DFL Molybdenum 78 mg/Kg EPA 6010 09/09 09/23 DFL Nickel 130 EPA 6010 mg/Kg 09/09 09/23 DFL Potassium 2700 mg/Kg EPA 6010 09/09 09/24 DFL Selenium 132 mg/Kg 09/09 09/23 EPA 6010 DFL Silver 24 U mg/Kg EPA 6010 09/09 09/23 DFL Sodium 1300 mg/Kg EPA 6010 09/09 09/24 DFL Thallium 1.8 mg/Kg EPA 7841 09/09 09/10 KAW Vanadium 138 mg/Kg EPA 6010 09/09 09/23 DFL Zinc 180 mg/Kg EPA 6010 09/09 09/23 DFL

See Special Instructions Above

See Sample Remarks Above

V = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4504-9

Client Sample ID :LON-BKGD-SD01 SPIKE DUPLICATE

PWSID

:SOIL

Ordered By :RAY MORRIS

Project Name Project#

Client Name

:LONELY

:ICF KAISER ENGINEERING

:DEW LINE

:UA

WORK Order

:70357 Report Completed :11/03/93

:08/25/93 @ 15:00 hrs Collected Received :08/31/93 @ 15:10 hrs

5633 B STA ANCHOPAGE, AK 99

TEL: (907) 562-2343

FAX. (907) 561-5301

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G. J = MIDICATES AN ANALYTE WHOSE CONCENTRATION IS ESTIMATED BECAUSE THE ANALYTE'S CONCENTRATION IS DETECTED BELOW THE CALIBRATION RANGE. FOR SPIKING

LEVELS AND PERCENT RECOVERIES, SEE QA/QC PACKAGE.

		QC			Allowable	Ext.	Anal	
 Parameter	Results	Qual	Units	Method	Limits	Date	Date	Init
Volatile Organics				EPA 8260				
Benzene	1.14		mg/Kg	EPA 8260		09/01	09/04	SGM
Bromobenzene	0.050	Ü	mg/Kg	EPA 8260			09/04	SGM
Bromochloromethane	0.050	Ü	mg/Kg	EPA 8260			09/04	SGM
Bromodichloromethane	0.050	U	mg/Kg	EPA 8260			09/04	SGM
Bromoform	0.050	U	mg/Kg	EPA 8260			09/04	SGM
Bromomethane	0.050	U	mg/Kg	EPA 8260			09/04	SGM
n-Butylbenzene	0.236		mg/Kg	EPA 8260		09/01	09/04	
sec-Butylbenzene	0.141		mg/Kg	EPA 8260			09/04	
tert-Butylbenzne	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
Carbon Tetrachloride	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
Chlorobenzene	1.10		mg/Kg	EPA 8260		09/01	09/04	SGM
Chloroethane	0.050	U	mg/Kg	EPA 8260		09/01		SGM
Chloroform	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
Chloromethane	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
2-Chlorotoluene	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
4-Chlorotoluene	0.050	IJ	mg/Kg	EPA 8260		09/01	09/04	SGM
Dibromochloromethane	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
12Dibromo3Chloropropane	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,2-Dibromoethane	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
Dibromomethane	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,2-Dichlorobenzene	0.050	Ü	mg/Kg	EPA 8260		09/01	09/04	SGM
1,3-Dichlorobenzene	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,4-Dichlorobenzene	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
Dichlorodifluoromethane	0.050	Ü	mg/Kg	EPA 8260		09/01		SGM
1,1-Dichloroethane	0.050	U	mg/Kg	EPA 8260		09/01		SGM
1,2-Dichloroethane	0.050	U	mg/Kg	EPA 8260		09/01		SGM
1,1-Dichloroethene	0.723		mg/Kg	EPA 8260		09/01		SGM
cis-1,2-Dichloroethene	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
trans1,2-Dichloroethene	0.050	U	mg/Kg	EPA 8260		09/01	09/04	SGM
1,2-Dichloropropane	0.050	Ü	mg/Kg	EPA 8260		09/01		SGM
1,3-Dichloropropane	0.050	U	mg/Kg	EPA 8260	.*.	09/01		SGM
2,2-Dichloropropane	0.050	U	mg/Kg	EPA 8260		09/01		SGM
1,1-Dichloropropene	0.050	U	mg/Kg	EPA 8260		09/01		SGM
Ethylbenzene	0.389		mg/Kg	EPA 8260		09/01	09/04	SGM



ENVIRONMENTAL LABORATORY SERVICES

S NOS 1908	REP	ORT of AN	ALYSIS		
hemlab Ref.# :93.4504-9				5633 B STREET	
Client Sample ID :LON-BKGD-9	SD01 SPIKE D	IPLT CATE		ANCHORAGE, AK 99518	
Matrix :SOIL	0.1.65 5.	J. D. O		TEL: (907) 562-2543 FAX: (907) 561-5301	
V0012				1777 (207) 331-3301	
Hexachlorobutadiene	0. <b>05</b> 0 U	m = /1/=	FT 0360	20 (04	
Isopropylbenzene	0.050 U 0.186	mg/Kg	EPA 8260	09/01 09/04 SG	
p-Isopropyltoluene		mg∕Kg	EPA 8260	09/01 09/04 SG	
Methylene Chloride	0.119	mg/Kg	EPA 8260	09/01 09/04 SG	M
	0.050 U	mg/Kg	EPA 8260	09/01 09/04 SG	М
Napthalene	0.215	mg/Kg	EPA 8260	09/01 09/04 SG	М
n-Propylbenzene	0.322	mg/Kg	EPA 8260	09/01 09/04 SG	M
Styrene	0. <b>0</b> 50 U	mg/Kg	EPA 8260	09/01 09/04 SG	
1112-Tetrachloroethane	0.050 ប	mg/Kg	EPA 8260	09/01 09/04 SG	
1122-Tetrachloroethane	0. <b>0</b> 50 U	mg/Kg	EPA 8260	09/01 09/04 SG	
Tetrachloroethene	0.050 U	mg/Kg	EPA 8260	09/01 09/04 SG	
Toluene	1.22	mg/Kg	EPA 8260	09/01 09/04 SG	
1,2,3-Trichlorobenzene	0.050 U	mg/Kg	EPA 8260		
1,2,4-Trichlorobenzene	0.050 U	mg/Kg	EPA 8260		
1,1,1-Trichloroethane	0.050 U	mg/Kg	EPA 8260		
1,1,2-Trichloroethane	0.050 U	mg/Kg	EPA 8260	09/01 09/04 SG	
Trichloroethene	0.984			09/01 09/04 SG	
Trichlorofluoromethane		mg/Kg	EPA 8260	09/01 09/04 SG	
1,2,3-Trichloropropane		mg/Kg	EPA 8260	09/01 09/04 SG	
1,2,4-Trimethylbenzene	0.050 U 0.996	mg/Kg	EPA 8260	09/01 09/04 SG	
1,3,5-Trimethylbenzene		mg/Kg	EPA 8260	09/01 09/04 SG	
Vinyl Chloride	0.415	mg/Kg	EPA 8260	09/01 09/04 SG	
p+m-Xylene	0.050 U	mg/Kg	EPA 8260	09/01 09/04 SG	M
o-Xylene	1.63	mg/Kg	EPA 8260	09/01 09/04 SG	M
O-WATELIE	0.743	mg/Kg	EPA 8260	09/01 09/04 SG	M
Semivolatile Organics					
Phenol	0 550 -	4	EPA 8270		
	0.522 J	mg/Kg	EPA 8270	09/08 10/07 G	V
bis(2-Chloroethyl)ether	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	V
2-Chlorophenol	0.455 J	mg/Kg	EPA 8270	09/08 10/07 G	V
1,3-Dichlorobenzene	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	V
1,4-Dichlorobenzene	0.374 J	mg/Kg	EPA 8270	09/08 10/07 G	V
Benzyl Alcohol	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	V
1,2-Dichlorobenzene	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	V
2-Methylphenol	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
bis(2-Chloroisopropyl)e	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
4-Methylphenol	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
n-Nitroso-di-n-Propylam	0.682 J	mg/Kg	EPA 8270	09/08 10/07 G	
Hexachloroethane	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
Nitrobenzene	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
Isophorone	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
2-Nitrophenol	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
2,4-Dimethylphenol	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
Benzoic Acid	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
bis(2-Chloroethoxy)Meth	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
2,4-Dichlorophenol	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
1,2,4-Trichlorobenzene	0.485 J	mg/Kg	EPA 8270	09/08 10/07 G	
Naphthalene	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
4-Chloroaniline	4.00 U	mg/Kg	EPA 8270	09/08 10/07 G	
Hexachlorobutadiene	4.00 U	mg/Kg	EPA 8270		
4-Chloro-3-Methylphenol	0.569 J	mg/Kg	EPA 8270		
2-Methylnaphthalene	4.00 U	mg/Kg	EPA 8270		
Hexachlorocyclopentadie	4.00 U	mg/Kg	EPA 8270	09/08 10/07 Gi 09/08 10/07 Gi	
				02/00 10/01 6	٧





ENVIRONMENTAL LABORATORY SERVICES

5 NOE 1908		אבדא	ORT of ANA	MIVCTC	
Chemlab Ref.# :93.4504-9			oni oi ani	ALIDID	5633 B STA
Client Sample ID :LON-BKGD-SI	אות כפדע	וח ד	UPLICATE		ANCHORAGE, AK 995
Matrix :SOIL	01 5111	יע ב	OLTICATE		TEL: (907) 562-2343
					FAX: (907) 561-5301
2,4,6-Trichlorophenol	4.00	U	mg/Kg	EPA 8270	09/08 10/07 G
2,4,5-Trichlorophenol	4.00	Ŭ	mg∕Kg	EPA 8270	
2-Chloronaphthalene	4.00	Ü			09/08 10/07 G
2-Nitroaniline	4.00	U	mg/Kg	EPA 8270	09/08 10/07 G
Dimethylphthalate	4.00	Ü	mg/Kg	EPA 8270	09/08 10/07 G\
Acenaphthylene	4.00	-	mg/Kg	EPA 8270	09/08 10/07 G
2,6-Dinitrotoluene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
3-Nitroaniline		U	mg/Kg	EPA 8270	09/08 10/07 GV
Acenaphthene	4.00	Ü	mg/Kg	EPA 8270	09/08 10/07 GV
2,4-Dinitrophenol	0.609	J	mg/Kg	EPA 8270	09/08 10/07 GV
4-Nitrophenol	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
	0.064	J	mg/Kg	EPA 8270	09/08 10/07 GV
Dibenzofúran	4.00	ū	mg/Kg	EPA 8270	09/08 10/07 GV
2,4-Dinitrotoluene	0.527	J	mg/Kg	EPA 8270	09/08 10/07 GV
Diethylphthalate	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
4-Chlorophenyl-Phenylet	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Fluorene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
4-Nitroaniline	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
4,6-Dinitro-2-Methylphe	4.00	Ü	mg/Kg	EPA 8270	09/08 10/07 GV
n-Nitrosodiphenylamine	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
4-Bromophenyl-Phenyleth	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Hexachlorobenzene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Pentachlorophenol	4.00	Ü	mg/Kg	EPA 8270	09/08 10/07 GV
Phenanthrene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Anthracene	4.00	U	mg/Kg	EPA 8270	09/08 10/07
di-n-Butylphthalate	0.862	J	mg/Kg	EPA 8270	09/08 10/07
Fluoranthene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 G
Pyrene	0.684	J	mg/Kg	EPA 8270	09/08 10/07 GV
Butylbenzylphthalate	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
3,3-Dichlorobenzidine	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Benzo(a)Anthracene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Chrysene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
bis(2-Ethylhexyl)Phthal	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
di-n-Octylphthalate	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Benzo(b)Fluoranthene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Benzo(k)Fluoranthene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Eenzo(a)Pyrene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Indeno(1,2,3-cd)Pyrene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Dibenz(a,h)Anthracene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV
Benzo(g,h,i)Perylene	4.00	U	mg/Kg	EPA 8270	09/08 10/07 GV

* See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

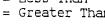
D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than





Member of the SGS Group (Société Générale de Surveillance)

ENVIRONMENTAL LABORATORY SERVICES

:ICF KAISER ENGINEERING

REPORT of ANALYSIS

mlab Ref.# :93.4506-4 Client Sample ID :LON-BKGD-SD02

Matrix

PWSID

:SOIL

:70353 WORK Order

Report Completed :10/12/93

:08/25/93 @ 16:35 hrs. Collected :08/31/93 @ 15:10 hrs. Received

5633 B STREET

TEL: (907) 562-2343 FAX: (907) 561-5301

ANCHORAGE, AK 99518

Technical Director: STEPHEN.C. EDE

Released By :

Client Name

Ordered By Project Name Project#

:RAY MORRIS :DEW LINE :LONELY

:UA

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, J.M., AND PETER M.G.

	- 11	QC	** * 4	Wathad	Allowable Limits	Ext. Date	Anal Date	Init
Parameter	Results	Quai	Units	Method				
Volatile Organics				EPA 8260				
Benzene	0.500	U	<b>mg∕K</b> g	EPA 8260		09/03		SGM
Bromobenzene	0.500	U	mg/Kg	EPA 8260		09/03		SGM
Bromochloromethane	0.500	U	mg/Kg	EPA 8260		09/03	•	SGM
Bromodichloromethane	0.500	U	mg/Kg	EPA 8260		09/03		SGM
Bromoform	0.500	U	mg/Kg	EPA 8260		09/03		SGM
Bromomethane	0.500	U	mg/Kg	EPA 8260		09/03		SGM
n-Butylbenzene	0.500	U	mg/Kg	EPA 8260		09/03		SGM
sec-Butylbenzene	0.500	U	mg/Kg	EPA 8260		09/03		SGM
tert-Butylbenzne	0.500	U	mg/Kg	EPA 8260		09/03		SGM
Carbon Tetrachloride	0.500	U	mg/Kg	EPA 8260			09/04	SGM
Chlorobenzene	0.500	U	mg/Kg	EPA 8260			09/04	SGM
Chloroethane	0.500	บ	mg/Kg	EPA 8260			09/04	SGM
Chloroform	0.500	U	mg/Kg	EPA 8260			09/04	SGM
Chloromethane	0.500	U	mg/Kg	EPA 8260			09/04	SGM
2-Chlorotoluene	0.500	U	mg/Kg	EPA 8260			09/04	SGM
4-Chlorotoluene	0.500	บ	mg/Kg	EPA 8260			09/04	SGM
Dibromochloromethane	0.500	U	mg/Kg	EPA 8260			09/04	SGM
12Dibromo3Chloropropane	0.500		mg/Kg	EPA 8260			09/04	SGM
1,2-Dibromoethane	0.500		mg/Kg	EPA 8260			09/04	SGM
Dibromomethane	0.500		mg/Kg	EPA 8260			09/04	SGM
1,2-Dichlorobenzene	0.500		mg/Kg	EPA 8260			09/04	SGM
1,3-Dichlorobenzene	0.500		mg/Kg	EPA 8260			09/04	SGM
1,4-Dichlorobenzene	0.500		mg/Kg	EPA 8260			09/04	SGM
Dichlorodifluoromethane	0.500		mg/Kg	EPA 8260			09/04	SGM
1,1-Dichloroethane	0.500		mg/Kg	EPA 8260			09/04	SGM
1,2-Dichloroethane	0.500		mg/Kg	EPA 8260			09/04	SGM
1,1-Dichloroethene	0.500		mg/Kg	EPA 8260			09/04	SGM
cis-1,2-Dichloroethene	0.500		mg/Kg	EPA 8260			09/04	SGM
trans1,2-Dichloroethene	0.500		mg/Kg	EPA 8260			09/04	SGM
1,2-Dichloropropane	0.500		mg/Kg	EPA 8260			09/04	SGM
1,3-Dichloropropane	0.500		mg/Kg	EPA 8260			09/04	SGM
2,2-Dichloropropane	0.500		mg/Kg	EPA 8260			09/04	SGM SGM
1,1-Dichloropropene	0.500		mg/Kg	EPA 8260			09/04	SGM
Ethylbenzene	0.500		mg/Kg	EPA 8260	-		09/04	
Hexachlorobutadiene	0.500		mg/Kg	EPA 8260			09/04	SGM
Isopropylbenzene	0.500		mg/Kg	EPA 8260			09/04	SGM
p-Isopropyltoluene	0.500	ט (	mg/Kg	EPA 8260		07/03	0 0 3 / 0 4	องก



ENVIRONMENTAL LABORATORY SERVICES

:93.4506-4

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Chemlab Ref.# Client Sample ID :LON-BKGD-SD02

fatrix :SOIL	702			FAX: (907) 561-5	301
	. 500	/1/	EPA 8260	09/03 09/04	SGM
Methylene Chloride	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
Napthalene	0.500 U 0.500 U	mg/Kg mg/Kg	EPA 8260	09/03 09/04	SGM
n-Propylbenzene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
Styrene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
1112-Tetrachloroethane 1122-Tetrachloroethane	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
Tetrachloroethene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
Toluene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
1,2,3-Trichlorobenzene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
1,2,4-Trichlorobenzene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
1,1,1-Trichloroethane	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
1,1,2-Trichloroethane	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
Trichloroethene	០.500 ប	mg/Kg	EPA 8260	09/03 09/04	SGM SGM
Trichlorofluoromethane	0.500 U	m <b>g/K</b> g	EPA 8260	09/03 <b>09/04</b> 09/03 09/04	SGM
1,2,3-Trichloropropane	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
1,2,4-Trimethylbenzene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
1,3,5-Trimethylbenzene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
Vinyl Chloride	0.500 U	mg/Kg	EPA 8260 EPA 8260	09/03 09/04	SGM
p+m-Xylene	0.500 U	mg/Kg	EPA 8260	09/03 09/04	SGM
o-Xylene	0.500 U	mg/Kg	EFA 0200	00,00	
Semivolatile Organics			EPA 8270	09/08 10/06	<b>GV</b>
Phenol	30.0 U	mg/Kg	EPA 8270	09/08 10/06	<b>664</b>
bis(2-Chloroethyl)ether	30.0 U	mg/Kg	EPA 8270 EPA 8270	09/08 10/06	
2-Chlorophenol	30.0 U	mg/Kg	EPA 8270	09/08 10/06	GV
1,3-Dichlorobenzene	30.0 U	mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
1,4-Dichlorobenzene	30.0 U 30.0 U	mg/Kg mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
Benzyl Alcohol	30.0 U 30.0 U	mg/Kg	EPA 8270	09/08 10/06	GV
1,2-Dichlorobenzene	30.0 U	mg/Kg	EPA 8270	09/08 10/06	G <b>V</b>
<pre>2-Methylphenol bis(2-Chloroisopropyl)e</pre>	30.0 U	mg/Kg	EPA 8270	09/08 10/06	<b>GV</b>
	30.0 U	mg/Kg	EPA 8270	09/08 10/06	GV
4-Methylphenol n-Nitroso-di-n-Propylam	30.0 U	mg/Kg	EPA 8270	09/08 10/06	GV
Hexachloroethane	30.0 U	mg/Kg	EPA 8270	09/08 10/06	GV
Nitrobenzene	30.0 U	mg/Kg	EPA 8270	09/08 10/06	GV
Isophorone	30.0 U	mg/Kg	EPA 8270	09/08 10/06	G <b>V</b> G <b>V</b>
2-Nitrophenol	30.0 U	mg/Kg	EPA 8270	09/08 10/06 09/08 10/06	GV GV
2,4-Dimethylphenol	30.0 U	mg/Kg	EPA 8270	09/08 10/06	GV
Benzoic Acid	30.0 U	mg/Kg	EPA 8270	09/08 10/06	GV
bis(2-Chloroethoxy)Meth	30.0 U	mg/Kg	EPA 8270 EPA 8270	09/08 10/06	G <b>V</b>
2,4-Dichlorophenol	30.0 U	<u> </u>	EPA 8270	09/08 10/06	GV
1,2,4-Trichlorobenzene	30.0 U	J	EPA 8270	09/08 10/06	<b>GV</b>
Naphthalene	30.0 U	•	EPA 8270	09/08 10/06	GV
4-Chloroaniline	30.0 U <b>30.</b> 0 U	<u> </u>	EPA 8270	09/08 10/06	<b>GV</b>
Hexachlorobutadiene	30.0 U		EPA 8270	09/08 10/06	GV
4-Chloro-3-Methylphenol	30.0 U		EPA 8270	09/08 10/06	GV
2-Methylnaphthalene Hexachlorocyclopentadie	30.0 U		EPA 8270	09/08 10/06	GV
2,4,6-Trichlorophenol	30.0 U		EPA 8270	09/08 10/06	GV
2,4,5-Trichlorophenol	30.0 U		EPA 8270	09/08 10/06	GV
2-Chloronaphthalene	30.0 U		EPA 8270	09/08 10/06	GV
5 Ottor or selections					



ENVIRONMENTAL LABORATORY SERVICES

		••••					
CE 1908		REPO	ORT of ANALY	SIS			
memlab Ref.# :93.4506-4						5633 B S	
Client Sample ID :LON-BKGD-SD0	2					ANCHORAGE, AK TEL: (907) 56	
Matrix :SOIL		$\sim$	elfre Come	1 d-		FAX: (907) 56	
		M					
2-Nitroaniline	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
Dimethylphthalate	30.0	U	mg/Kg	EPA 8270		09/08 10/06	<b>GV</b>
Acenaphthylene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	G٧
2,6-Dinitrotoluene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
3-Nitroaniline	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
Acenaphthene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
2,4-Dinitrophenol	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
4-Nitrophenol	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
Dibenzofuran	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
2,4-Dinitrotoluene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
Diethylphthalate	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
4-Chlorophenyl-Phenylet	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Fluorene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
4-Nitroaniline	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
4,6-Dinitro-2-Methylphe	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
n-Nitrosodiphenylamine	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
4-Bromophenyl-Phenyleth	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Hexachlorobenzene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Pentachlorophenol	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Phenanthrene	30.0	Ü	mg/Kg	EPA 8270		09/08 10/06	
Anthracene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
di-n-Butylphthalate	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Fluoranthene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Pyrene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Butylbenzylphthalate	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
3,3-Dichlorobenzidine	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Benzo(a)Anthracene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Chrysene	30.0	Ü	mg/Kg	EPA 8270		09/08 10/06	
bis(2-Ethylhexyl)Phthal	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
di-n-Octylphthalate	30:0	Ü	mg/Kg	EPA 8270		09/08 10/06	
Benzo(b)Fluoranthene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Benzo(k)Fluoranthene	30.0	Ü	mg/Kg	EPA 8270		09/08 10/06	<b>GV</b>
Benzo(a)Pyrene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Indeno(1,2,3-cd)Pyrene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	
Dibenz(a,h)Anthracene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	<b>GV</b>
Benzo(g,h,i)Perylene	30.0	U	mg/Kg	EPA 8270		09/08 10/06	GV
Sample Preparation			E	PA 3050 Digest			
Total Metals Analysis				-			
ICP Screen, ICF				EPA	n/a		
Aluminum	5050		mg/Kg	EPA 6010		09/09 09/23	
Antimony	130	U	mg/Kg	EPA 6010		09/09 09/23	
Arsenic	13	U	mg/Kg	EPA 6010		09/09 09/23	DFL
Barium	284		mg/Kg	EPA 6010		09/09 09/23	
Beryllium	6.4	U	mg/Kg	EPA 6010		09/09 09/23	DFL
Cadmium	6.4	U -	Z mg/Kg 1.2	EPA 6010		09/09 09/23	DFL
Calcium	20300		mg/Kg	EPA 6010		09/09 09/23	DFL
Chromium	8.5		mg/Kg	EPA 6010	•	09/09 09/23	
Cobalt	13	U	mg/Kg	EPA 6010		09/09 09/23	
Copper	24		mg/Kg	EPA 6010		09/09 09/23	
Iron	14600		mg/Kg	EPA 6010		09/09 09/23	DFL
			- <del>-</del>				

Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

5-NCE 1908		REPORT of AN	ALYSIS		
Chemlab Ref.# Client Sample IN Matrix	:93.4506-4 D:LON-BKGD-SD02 :SOIL	2 1 (	Tract	5633 B STF ANCHORAGE, AK 9 TEL: (907) 562- FAX: (907) 561-	9518 2343
Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium	32( 6 3 64 13	50 mg/Kg .4 U mg/Kg 30 mg/Kg 40 U mg/Kg 30 U mg/Kg 64 U mg/Kg 80 mg/Kg	EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 J. (EPA 6010 EPA 6010 EPA 7841	09/09 09/23 09/09 09/23 09/09 09/23 09/09 09/23 09/09 09/23 09/09 09/24 09/09 09/23 09/09 09/24 09/09 09/10	DFL DFL DFL DFL DFL DFL KAW
Vanadium Zinc	9.	17 <b>mg/</b> Kg .4 <b>mg/</b> Kg	EPA 6010 EPA 6010	09/09 09/23 09/09 09/23	DFL DFL
TOC, Soil	47300	00 mg/Kg	PSEP Ref Lab	09/30	

All chaps s.c 2/22/94

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than







ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4504-1 Client Sample ID :LON-BKGD-SW01

Matrix

:WATER

Client Name

:ICF KAISER ENGINEERING :RAY MORRIS

Ordered By

Project Name Project# PWSID

:DEW LINE :LONELY :UA

REPORT of ANALYSIS

WORK Order :70357

Report Completed :11/03/93

Collected :08/25/93 @ 14:25 hrs Received :08/31/93 @ 15:10 hrs

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G. 8270 HOLDING

TIME EXCEEDED, SAMPLE NOT ANALYZED AS PER CLIENT.

	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.0010	ប	mg/L	EPA 8260		09/03	09/03	нсм
	Bromobenzene	0.0010	IJ	mg/L	EPA 8260			09/03	MCM
	Bromochloromethane	0.0010	IJ	mg/L	EPA 8260			09/03	MCM
	Bromodichloromethane	0.0010	IJ	mg/L	EPA 8260			09/03	MCM
	Bromoform	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Bromomethane	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	MCM
	n-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
_	sec-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	tert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	Chloroethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Chloroform	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Chloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Dibromochloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
	1,2-Dichloroethane	0.0079		mg/L	EPA 8260		09/03	09/03	MCM
	1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260	. 6	09/03		MCM
	1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260	•	09/03		MCM
	Ethylbenzene	0.0010	U	mg/L	EPA 8260		09/03		MC <b>M</b>
	Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREE Chemlab Ref.# :93.4504-1 ANCHORAGE, AK 99518 Client Sample ID :LON-BKGD-SW01 TEL: (907) 562-23-3 FAX: (907) 551-5301 :WATER Matrix 09/03 09/03 MCM FPA 8260 p-Isopropyltoluene 0.0010 U mg/LMCM 09/03 09/03 EPA 8260 0.0010 U mq/L Methylene Chloride MCM 09/03 09/03 EPA 8260 0.0010 U mq/L Napthalene 09/03 09/03 MCM EPA 8260 0.0010 U mg/Ln-Propylbenzene EPA 8260 09/03 09/03 MCM mg/L 0.0010 Styrene 09/03 09/03 MCM EPA 8260 0.0010 mq/L 1112-Tetrachloroethane 09/03 09/03 EPA 8260 0.0010 U ma/L 1122-Tetrachloroethane 09/03 09/03 MCM EPA 8260 0.0010 H mg/L Tetrachloroethene 09/03 09/03 MCM EPA 8260 0.0010 U mg/L Toluene 09/03 09/03 MCM EPA 8260 0.0010 U mq/L 1,2,3-Trichlorobenzene 09/03 09/03 MCM EPA 8260 1,2,4-Trichlorobenzene 0.0010 mg/L 09/03 09/03 MCM EPA 8260 1,1,1-Trichloroethane 0.0010 mq/L 09/03 09/03 MCM EPA 8260 0.0010 mq/L 1.1.2-Trichloroethane U 09/03 09/03 MCM EPA 8260 0.0010 U mq/L Trichloroethene 09/03 09/03 MCM EPA 8260 0.0010 mg/L Crichlorofluoromethane 09/03 09/03 MCM EPA 8260 2,3-Trichloropropane mg/L 0.0010 U 09/03 09/03 MCM EPA 8260 0.0010 Ü mq/L 1.2.4-Trimethylbenzene 09/03 09/03 MCM EPA 8260 0.0010 U mq/L 1.3.5-Trimethylbenzene 09/03 09/03 MCM EPA 8260 U mg/L 0.0010 Vinyl Chloride 09/03 09/03 MCM EPA 8260 0.0010 U mg/L p+m-Xylene EPA 8260 09/03 09/03 MCM 0.0010 mg/L o-Xylene Total Metals Analysis EPA n/a ICP Screen. ICF 09/10 09/14 0.10 U mg/L EPA 6010 Aluminum 09/10 09/14 DFL EPA 6010 0.10 T. mg/L Antimony 09/10 09/14 DFL EPA 6010 0.10 11 mg/L Arsenic 09/10 09/14 DFL EPA 6010 0.065 mg/L Barium 09/10 09/14 DFL EPA 6010 0.050 mg/L Beryllium [] 09/10 09/14 DFL F.PA 6010 0.050 U mg/L Cadmium 09/10 09/14 DFL FPA 6010 35 mq/L Calcium 09/10 09/14 DFL EPA 6010 0.050 U mg/L Chromium 09/10 09/14 DFL EPA 6010 0.10 U mg/L Cobalt 09/10 09/14 DFL EPA 6010 0.050 mq/L Copper 09/10 09/14 DFL EPA 6010 0.61 mq/L Iron 09/10 09/14 DFL EPA 6010 0.10 11 ma/L Lead 09/10 09/14 DFL EPA 6010 mq/L Magnesium 22 09/10 09/14 DFL EPA 6010 0.050 mg/L Manganese H 09/10 09/14 DFL EPA 6010 mg/L 0.050 U Molybdenum 09/10 09/14 DFL EPA 6010 0.050 U mg/L Nickel 09/10 09/21 DFL EPA 6010 U mg/L 5.0 Potassium 09/10 09/14 DFL EPA 6010 0.10 mg/L U Selenium 09/10 09/14 DFL EPA 6010 0.050 U mg/L Silver 09/10 09/21 DEL EPA 6010 Sodium 70 mg/L 09/09 09/10 KAW EPA 7841 0.0050 U mg/L Thallium 09/10 09/14 DFL EPA 6010 0.050 U mg/L Vanadium DFL 09/10 09/14 mg/L EPA 6010 0.050 Zinc Dissolved Metals Analys n/a EPA ICP Screen, ICF DEL 09/10 09/14 0.10 U EPA 6010 mq/L Aluminum





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4504-1 5633 B STREET Client Sample ID :LON-BKGD-SW01 ANCHORAGE, AK 99513 TEL: (907) 562-2343 Matrix :WATER FAX: (907) 561-5301 Antimony 0.10 U mg/L EPA 6010 09/10 09/14 DFI Arsenic 0.10 U mq/LEPA 6010 09/10 09/14 DFI Barium 0.060 mq/L EPA 6010 09/10 09/14 DFI Beryllium 0.050 mq/L EPA 6010 09/10 09/14 DFT Cadmium 0.050 mq/L EPA 6010 09/10 09/14 DFI Calcium 34 mg/L EPA 6010 09/10 09/14 DFT Chromium 0.050 U EPA 6010 mg/L 09/10 09/14 DFI Cobalt 0.10 П EPA 6010 mg/L 09/10 09/14 DFI Copper 0.050 U EPA 6010 mg/L 09/10 09/14 DFI Iron 0.21 mg/L EPA 6010 09/10 09/14 DFL Lead 0.10 U mq/L EPA 6010 09/10 09/14 DFI Magnesium 22 mq/L EPA 6010 09/10 09/14 DFL Manganese 0.050 EPA 6010 mq/L 09/10 09/14 DFI Molybdenum 0.050 U mg/L EPA 6010 09/10 09/14 DFL Nickel 0.050 EPA 6010 mg/L 09/10 09/14 DFL Potassium 5.0 EPA 6010 mg/L 09/10 09/21 DFL Selenium 0.10 U mg/L EPA 6010 09/10 09/14 DFL Silver 0.050 U mq/LEPA 6010 09/10 09/14 DFL Sodium 70 mg/L EPA 6010 09/10 09/21 DFL Thallium 0.0050 H mg/L EPA 7841 09/09 09/10 KAW Vanadium 0.050 U mg/LEPA 6010 09/10 09/14 DET. Zinc 0.050 U mg/L EPA 6010 09/10 09/14 DET. TOC, Nonpurgable EPA 9060 n/a ...TOC Range 28.2-29.3 mq/L EPA 9060 09/13 CMR ... TOC Concentration 28.7 mg/L EPA 9060 09/13 CMR Residue, Non-Filterable 12 EPA 160.2 mg/L 09/02 09/02 GPP Residue, Filterable (TDS)

mg/L

EPA 160.1

500

See Special Instructions Above

See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

424

UA = Unavailable NA = Not Analyzed LT = Less Than GT = Greater Than

09/16 09/17

**RJK** 



SSS Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4504-2

:ICF KAISER ENGINEERING

Client Sample ID :LON-BKGD-SW01 DUPLICATE

Matrix

Client Name

Project Name

Ordered By

Project#

:WATER

:RAY MORRIS

:DEW LINE

:LONELY

WORK Order :70357

> Report Completed :11/03/93 Collected :08/25/93 @ 14:25 hrs Received :08/31/93 @ 15:10 hrs

5633 B ST ANCHORAGE, AK 99

TEL: (907) 562-2343

FAX: (907) 561-5301

Technical Director: STEPHEN, C. EDE

Released By :

PWSID :UA

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G.

Parameter	Results	QC Qual	Units	Method	Allowable Limits		Anal Date	Init
Total Metals Analysis				<del>-</del>				
ICP Screen, ICF				EPA	n/a			
Aluminum	0.10			EPA 6010			09/14	
Antimony	0.10			EPA 6010			09/14	DFL
Arsenic	0.10	U		EPA 6010			09/14	DFL
Barium	0.065		mg/L	EPA 6010			09/14	
Beryllium	0.050	U	mg/L	EPA 6010			09/14	
Cadmium	0.050	Ü		EPA 6010			09/14	
Calcium	35		mg/L	EPA 6010			09/14	DFL
Chromium	0.050	U	٠.	EPA 6010			09/14	DFL
Cobalt	0.10	U	mg/L	EPA 6010			09/14	
Copper	0.050	U	mg/L	EPA 6010			09/14	v
Iron	0.60		mg/L	EPA 6010			09/14	DFL
Lead	0.10	U	٠.	EPA 6010			09/14	DFL
Magnesium	23		mg/L	EPA 6010			09/14	
Manganese	0.050			EPA 6010			09/14	
Molybdenum	0.050			EPA 6010			09/14	
Nickel	0.050			EPA 6010			09/14	
Potassium	5.0			EPA 6010			09/21	DFL
Selenium	0.10	U	_,	EPA 6010			09/14	
Silver	0.050	U		EPA 6010			09/14	
Sodium .	70		mg/L	EPA 6010			09/21	DFL
Thallium	0.0050			EPA 7841			09/10	KAW
Vanadium	0.050	U	-				09/14	
Zinc	0.56		mg/L	EPA 6010		09/10	09/14	DFL
Dissolved Metals Analys				<u>-</u>			•	
ICP Screen, ICF				EPA	n/a			
Aluminum	0.10	U	mg/L	EPA 6010		09/10	09/14	DFL
Antimony	0.10			EPA 6010		09/10	09/14	DFL
Arsenic	0.10	U	mg/L	EPA 6010		09/10	09/14	DFL
Barium	0.061		mg/L	EPA 6010		09/10	09/14	DFL
Beryllium	0.050	U	mg/L	EPA 6010			09/14	DFL
Cadmium	0.050	U	mg/L	EPA 6010			09/14	
Calcium	35		mg/L	EPA 6010	:		09/14	
Chromium	0.050		mg/L	EPA 6010			09/14	DFL
Cobalt	0.10	U	mg/L	EPA 6010	•		09/14	DFL
Copper	0.050	U	mg/L	EPA 6010		09/10	09/14	DFL





ENVIRONMENTAL LABORATORY SERVICES

5 NCE 1908		REPOR	RT of ANA	LYSIS					
Chemlab Ref.# :93.450 Client Sample ID :LON-BK Matrix :WATER		ICATE					ī	5633 B ST ORAGE, AK EL: (907) 562 AX: (907) 561	99513 1-2343
Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium	70 0.0050 0.050	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA 6 EPA 6 EPA 6 EPA 6 EPA 6 EPA 6 EPA 6	5010 5010 5010 5010 5010 5010 5010 5010		09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10	09/14 09/14 09/14 09/14 09/21 09/14 09/14 09/21 09/10 09/14	DFL DFL DFL DFL DFL DFL DFL DFL DFL DFL
TOC, NonpurgableTOC RangeTOC Concentration	0.050 28.2-29.3 28.8	Ŭ	mg/L mg/L mg/L	EPA 6 EPA 9 EPA 9	9060	n/a	09/10	09/14 09/13 09/13	DETL  CMR  CMR

See Special Instructions Above

** See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit. LT = Less Than

= Secondary dilution.

UA = Unavailable

NA = Not Analyzed

GT = Greater Than



**SSS** Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4504-3

Client Sample ID :LON-BKGD-SW01 SPIKE

:WATER

:ICF KAISER ENGINEERING

Ordered By Project Name

Client Name

:DEW LINE

Project# PWSID

:LONELY

:RAY MORRIS

:UA

WORK Order

:70357

Collected

Report Completed :11/03/93

:08/25/93 @ 14:25 hrs :08/31/93 @ 15:10 hrs

5633 B STA ANCHORAGE, AK 99

TEL: (907) 562-2343 FAX: (907) 561-5301

Received

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G.

Parameter	Q0 Results Qua		Method	Allowable Limits		Anal Date	Init
Total Metals Analysis			_				
ICP Screen, ICF			EPA	n/a			
Aluminum	0.87	mg/L	EPA 6010			09/14	DFL
Antimony	0.83	mg/L	EPA 6010			09/14	DFL
Arsenic	0.93	mg/L	EPA 6010			09/14	DFL
Barium	1.0	mg/L	EPA 6010			09/14	DFL
Beryllium	0.37	mg/L	EPA 6010			09/14	DFL
Cadmium	0.48	mg/L	EPA 6010			09/14	DFL
Calcium	44	mg/L	EPA 6010		09/10	09/14	DFL
Chromium	0.96	mg/L	EPA 6010			09/14	DFT.
Cobalt	0.94	mg/L	EPA 6010		09/10	09/14	
Copper	0.89	mg/L	EPA 6010		09/10	09/14	
Iron	1.6	mg/L	EPA 6010			09/14	DFL
Lead	0.93	mg/L	EPA 6010		09/10	09/14	DFL
Magnesium	31	mg/L	EPA 6010			09/14	DFL
Manganese	0.98	mg/L	EPA 6010		09/10	09/14	DFL
Molybdenum	0.96	mg/L	EPA 6010			09/14	DFL
Nickel	0.95	mg/L	EPA 6010			09/14	DFL
Potassium	7.5	mg/L	EPA 6010			09/21	DFL
Selenium	0.86	mg/L	EPA 6010			09/14	DFL
Silver	0.15	mg/L	EPA 6010			09/14	DFL
Sodium	80	mg/L	EPA 6010			09/21	DFL
Thallium	0.018	mg/L	EPA 7841			09/10	KAW
Vanadium	0.90	mg/L	EPA 6010			09/14	DFL
Zinc	0.92	mg/L	EPA 6010		09/10	09/14	DFL
Dissolved Metals Analys			_				
ICP Screen, ICF			EPA	n/a			
Aluminum	0.90	mg/L	EPA 6010			09/14	DFL
Antimony	0.85	mg/L	EPA 6010			09/14	DFL
Arsenic	0.93	mg/L	EPA 6010			09/14	DFL
Barium	1.0	mg/L	EPA 6010			09/14	DFL
Beryllium	0.37	mg/L	EPA 6010			09/14	DFL
Cadmium	0.47	mg/L	EPA 6010			09/14	DFL
Calcium	44	mg/L	EPA 6010			09/14	DFL
Chromium	0.95	mg/L	EPA 6010			09/14	DFL
Cobalt	0.94	mg/L	EPA 6010			09/14	DFL
Copper	0.91	mg/L	EPA 6010		09/10	09/14	DFL





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS Chemlab Ref.# :93.4504-3 5633 B STREET ANCHORAGE, AK 99513 Client Sample ID :LON-BKGD-SW01 SPIKE TEL: (907) 562-2343 :WATER FAX: (907) 561-5301 Iron 1.2 mg/L EPA 6010 09/10 09/14 DFL Lead 0.92 EPA 6010 mg/L 09/10 09/14 DFT Magnesium 31 mg/L EPA 6010 09/10 09/14 DFL Manganese 0.95 mg/L EPA 6010 09/10 09/14 DFL Molybdenum 0.97 mg/L EPA 6010 09/10 09/14 DFL Nickel 0.95 mg/L EPA 6010 09/10 09/14 DFL Potassium 9.5 mg/L EPA 6010 09/10 09/21 DFL Selenium 0.87 EPA 6010 mg/L 09/10 09/14 DFL Silver 0.15 EPA 6010 mg/L 09/10 09/14 DFL Sodium 80 EPA 6010 mg/L 09/10 09/21 DFL Thallium 0.018 EPA 7841 mg/L 09/09 09/10 KAW Vanadium 0.89 mg/L EPA 6010 09/10 09/14 DFL Zinc 0.92 mq/L EPA 6010 09/10 09/14 DFL TOC, Nonpurgable EPA 9060 n/a ...TOC Range 43.2-45.4 mg/L EPA 9060 09/13 CMR ...TOC Concentration 44.1 mg/L EPA 9060 09/13 CMR

See Special Instructions Above

See Sample Remarks Above

= Undetected, Reported value is the practical quantification limit.

0 = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



**\$565** Member of the SGS Group (Société Générale de Surveillance)



REPORT of ANALYSIS

ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.#

Client Name

Ordered By

:93.4506-2

Client Sample ID :LON-BKGD-SW02

Matrix

:WATER

TEL: (907) 562-2343 FAX: (907) 561-5301

:70353

:10/12/93

:08/25/93

5633 B STREE

@ 16:20 hrs.

ANCHORAGE, AK 99518

:ICF KAISER ENGINEERING

:RAY MORRIS

ject Name :LONELY ject# :UA "SID

Report Completed Collected :DEW LINE

:08/31/93 @ 15:10 hrs. Received

Technical Director:STEPHEN, C. EDE

Released By :

WORK Order

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, J.M., AND PETER M.G.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260		09/03	UØ \U3	MCM
Benzene	0.0010	U	mg/L	EPA 8260 EPA 8260		09/03		MCM
Bromobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
Bromochloromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
Bromodichloromethane	0.0010	Ü	mg/L	EPA 8260		09/03		MCM
Bromoform	0.0010	U	mg/L	EPA 8260		09/03		MCM
Bromomethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03	•	MCM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
tert-Butylbenzne	0.0010	U U	mg/L	EPA 8260			09/03	200
Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260			09/03	
Chlorobenzene	0.0010	_	mg/L	EPA 8260			09/03	HCM
Chloroethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
Chloroform	0.0010	U	mg/L	EPA 8260			09/03	MCM
Chloromethane	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
2-Chlorotoluene	0.0010	U U	mg/L	EPA 8260		-	09/03	MCM
4-Chlorotoluene	0.0010	_	mg/L	EPA 8260			09/03	MCM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM
12Dibromo3Chloropropane		U	mg/L	EPA 8260			09/03	MCM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
Dibromomethane	0.0010		mg/L	EPA 8260		•	09/03	MCM
1,2-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	MCM
1,3-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	MCM
1,4-Dichlorobenzene	0.0010		mg/L	EPA 8260			09/03	MCM
Dichlorodifluoromethane	0.0010		mg/L	EPA 8260			09/03	MCM
1,1-Dichloroethane	0.0010	-	mg/L	EPA 8260			09/03	MCM
1,2-Dichloroethane	0.0049		mg/L	EPA 8260			09/03	MCM
1,1-Dichloroethene	0.0010		mg/L	EPA 8260			09/03	MCM
cis-1,2-Dichloroethene	0.0010		mg/L mg/L	EPA 8260			09/03	MCM
trans1,2-Dichloroethene	0.0010	-		EPA 8260			09/03	MCM
1,2-Dichloropropane	0.0010		mg/L mg/L	EPA 8260			09/03	MCM
1,3-Dichloropropane	0.0010			EPA 8260			09/03	MCM
2,2-Dichloropropane	0.0010	_	mg/L mg/L	EPA 8260			09/03	MCM
1,1-Dichloropropene	0.0010 0.0010		mg/L	EPA 8260	••		09/03	MCM
Ethylbenzene	0.0010		mg/L	EPA 8260			09/03	MCM
Hexachlorobutadiene			mg/L	EPA 8260		09/03	09/03	MCM
Isopropylbenzene	0.0010			EPA 8260			09/03	MCM
p-Isopropyltoluene	0.0010	Ü	mg/L	ELA 0200		02,00	,	

**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS 5633 B STREET lab Ref.# :93.4506-2 ANCHORAGE, AK 99518 Client Sample ID :LON-BKGD-SW02 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER 09/03 09/03 MCM EPA 8260 Methylene Chloride 0.0010 ma/L 09/03 09/03 MCM **EPA** 8260 0.0010 U mq/L Napthalene **EPA** 8260 09/03 09/03 MCM 0.0010 П mq/L n-Propylbenzene mg/L **EPA** 8260 09/03 09/03 MCM 0.0010 U Styrene 09/03 09/03 MCM EPA 8260 0.0010 mq/L 1112-Tetrachloroethane U 09/03 09/03 MCM EPA 8260 1122-Tetrachloroethane 0.0010 U ma/L 09/03 09/03 MCM EPA 8260 0.0010 U mq/L Tetrachloroethene 09/03 09/03 MCM EPA 8260 0.0010 u ma/L Toluene 09/03 09/03 MCM 1,2,3-Trichlorobenzene EPA 8260 0.0010 U mq/L 09/03 09/03 **EPA** 8260 MCM 1,2,4-Trichlorobenzene 0.0010 U mq/L EPA 8260 09/03 09/03 MCM 1,1,1-Trichloroethane 0.0010 U mg/L 09/03 09/03 MCM **EPA** 8260 1,1,2-Trichloroethane 0.0010 U mq/L 09/03 09/03 MCM **EPA** 8260 0.0010 mq/L Trichloroethene 09/03 09/03 MCM **EPA** 8260 0.0010 Trichlorofluoromethane mq/L 09/03 09/03 MCM EPA 8260 0.0010 mq/L 1,2,3-Trichloropropane U **EPA** 8260 09/03 09/03 MCM 0.0010 U mg/L 1,2,4-Trimethylbenzene 09/03 09/03 MCM EPA 8260 1,3,5-Trimethylbenzene 0.0010 U mq/L 09/03 09/03 MCM 0.0010 EPA 8260 IJ mg/L Vinyl Chloride 09/03 09/03 MCM EPA 8260 0.0010 U mq/L p+m-Xylene 09/03 09/03 MCM EPA 8260 o-Xylene 0.0010 U mg/L EPA 8270 Semivolatile Organics **EPA** 8270 09/01 09/04 MTT 0.0102 U mq/L Phenol 0.0102 **EPA** 8270 09/01 09/04 MTT U mq/L is(2-Chloroethyl)ether 09/01 09/04 **EPA** 8270 MTT -Chlorophenol 0.0102 U mg/L 09/01 09/04 MTT 0.0102 **EPA** 8270 1,3-Dichlorobenzene 11 mg/L 09/01 09/04 **EPA** 8270 MTT 1,4-Dichlorobenzene 0.0102 U mg/L 09/01 09/04 0.0102 **EPA** 8270 MTT U mg/L Benzyl Alcohol 0.0102 09/01 09/04 **EPA** 8270 MTT U 1,2-Dichlorobenzene mg/L 09/01 09/04 0.0102 EPA 8270 MTT U mg/L 2-Methylphenol 09/01 09/04 MTT **EPA** 8270 bis(2-Chloroisopropyl)e 0.0102 U mg/L **EPA** 8270 09/01 09/04 MTT U 0.0102 mq/L 4-Methylphenol 09/01 09/04 **EPA** 8270 MTT n-Nitroso-di-n-Propylam 0.0102 U mg/L 09/01 09/04 EPA 8270 MTT Hexachloroethane 0.0102 mq/L 09/01 09/04 MTT 0.0102 ma/L EPA 8270 Nitrobenzene 09/01 09/04 MTT 0.0102 U mq/L EPA 8270 Isophorone 09/01 09/04 EPA 8270 MTT 2-Nitrophenol 0.0102 U mg/L 09/01 09/04 EPA 8270 11 2.4-Dimethylphenol 0.0102 mg/L 09/01 09/04 **EPA** 8270 П 0.0102 mg/L Benzoic Acid 09/01 09/04 EPA 8270 0.0102 11 mg/L bis(2-Chloroethoxy)Meth **EPA 8270** 09/01 09/04 0.0102 U mg/L 2.4-Dichlorophenol 09/01 09/04 MTT **EPA** 8270 0.0102 U mg/L 1.2.4-Trichlorobenzene 09/01 09/04 **EPA** 8270 MTT 0.0102 U mq/L Naphthalene 09/01 09/04 **EPA** 8270 MTT 4-Chloroaniline 0.0102 U mg/L 09/01 09/04 **EPA** 8270 MTT Hexachlorobutadiene 0.0102 U mq/L 09/01 09/04 **EPA** 8270 MTT 0.0102 4-Chloro-3-Methylphenol mg/L 09/01 09/04 MTT EPA 8270 2-Methylnaphthalene 0.0102 mg/L 09/01 09/04 MTT EPA 8270 Hexachlorocyclopentadie 0.0102 mg/L 09/01 09/04 EPA 8270 MTT 2,4,6-Trichlorophenol 0.0102 mg/L 09/01 09/04 0.0102 U **EPA** 8270 MTT 2,4,5-Trichlorophenol mg/L 09/01 09/04 **EPA 8270** MTT 0.0102 mg/L 2-Chloronaphthalene





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STRE Chemlab Ref.# :93.4506-2 ANCHORAGE, AK 99518 Client Sample ID :LON-BKGD-SW02 TEL: (907) 562-2343 Matrix :WATER FAX: (907) 581-5301 EPA 8270 09/01 09/04 2-Nitroaniline 0.0102 mq/L MTT 09/01 09/04 EPA 8270 MTT Dimethylphthalate 0.0102 U mg/L 09/01 09/04 0.0102 EPA 8270 MTT Acenaphthylene U mg/L 09/01 09/04 **EPA** 8270 MTT 0.0102 2,6-Dinitrotoluene U mg/L EPA 8270 09/01 09/04 MTT 3-Nitroaniline 0.0102 U mg/L 09/01 09/04 MTT EPA 8270 Acenaphthene 0.0102 U mg/L EPA 8270 09/01 09/04 MTT 2,4-Dinitrophenol 0.0102 U mq/L EPA 8270 09/01 09/04 MTT 4-Nitrophenol 0.0102 U mq/L mg/L EPA 8270 09/01 09/04 MIT Dibenzofuran 0.0102 U 2.4-Dinitrotoluene 0.0102 U **EPA** 8270 09/01 09/04 MTT mg/L EPA 8270 09/01 09/04 Diethylphthalate U MTT 0.0102 mg/L **EPA 8270** 09/01 09/04 4-Chlorophenyl-Phenylet U mg/L MTT 0.0102 **EPA 8270** 09/01 09/04 Fluorene 0.0102 U mq/L MTT 09/01 09/04 4-Nitroaniline 0.0102 U mq/L **EPA 8270** HTT **EPA 8270** 09/01 09/04 4,6-Dinitro-2-Methylphe 0.0102 H mg/L MTT 09/01 09/04 mg/L **EPA** 8270 MTT n-Nitrosodiphenylamine 0.0102 U 09/01 09/04 4-Bromophenyl-Phenyleth EPA 8270 MTT 0.0102 U mg/L 09/01 09/04 MTT **EPA 8270** Hexachlorobenzene 0.0102 U mg/L 09/01 09/04 MTT Pentachlorophenol 0.0102 U mq/L EPA 8270 09/01 09/04 Phenanthrene U **EPA** 8270 MTT 0.0102 ma/L EPA 8270 09/01 09/04 MTT Anthracene 0.0102 U mq/L **EPA 8270** 09/01 09/04 MTT di-n-Butylphthalate 0.0102 U mg/L .. 0.0102 U **EPA** 8270 09/01 09/04 MIT Fluoranthene mg/L 09/01 09/04 0.0102 U **EPA 8270** Pyrene mg/L 09/01 09/04 Butylbenzylphthalate U **EPA** 8270 0.0102 mg/L EPA 8270(J)-D.1 09/01 09/04 MTT 3.3-Dichlorobenzidine 0.0102 mq/L 09/01 09/04 MTT Benzo(a)Anthracene 0.0102 mg/L EPA 8270 Chrysene **EPA** 8270 09/01 09/04 MTT 0.0102 U mg/L 0.0102 **EPA** 8270 09/01 09/04 MTT bis(2-Ethylhexyl)Phthal mg/L 11 09/01 09/04 EPA 8270 MTT di-n-Octylphthalate 0.0102 U mg/L EPA 8270 09/01 09/04 MTT Benzo(b)Fluoranthene 0.0102 U mg/L 09/01 09/04 EPA 8270 MTT Benzo(k)Fluoranthene 0.0102 U mg/L 09/01 09/04 MTT **EPA 8270** Benzo(a)Pyrene 0.0102 U mg/L 09/01 09/04 MTT **EPA 8270** Indeno(1,2,3-cd)Pyrene 0.0102 U mg/L 09/01 09/04 **EPA 8270** MIT 0.0102 U Dibenz(a,h)Anthracene mg/L EPA 8270 09/01 09/04 MTT 0.0102 Benzo(g,h,i)Perylene mg/L Total Metals Analysis EPA n/a ICP Screen, ICF 09/10 09/14 DFL EPA 6010 0.10 U mg/L Aluminum 09/10 09/14 DFL **EPA** 6010 Antimony 0.10 U mg/L 09/10 09/14 EPA 6010 DFL 0.10 U mg/L Arsenic 09/10 09/14 0.050 **EPA** 6010 DFL Barium mg/L **EPA** 6010 09/10 09/14 DFL Beryllium 0.050 mg/L 0.050 U EPA 6010 09/10 09/14 DFL. Cadmium mg/L Calcium **EPA** 6010 09/10 09/14 DFL 19 mg/L 0.050 U mg/L **EPA** 6010 09/10 09/14 DFL Chromium 09/10 09/14 DFL Cobalt 0.10 U mg/L **EPA** 6010 09/10 09/14 DFL Copper 0.050 U mg/L **EPA** 6010 09/10 09/14 DFL 0.47 **EPA** 6010 Iron mg/L **EPA 6010** 09/10 09/14 DFL Lead 0.10 U mg/L

ENVIRONMENTAL LABORATORY SERVICES

NCE 1908		REPORT of ANALY	SIS			
emlab Ref.# :93.4506-	2		- <del></del>		5633 B STF	
Client Sample ID :LON-BKGD					ANCHORAGE, AK 9	
Matrix :WATER		Quelifies Comm	4		TEL: (907) 562- FAX: (907) 561-	
		Questiffe Comm	2 V		, <b>,</b> ,	
Magnesium	. 11	mg/L	EPA 6010		09/10 09/14	DFL
Manganese	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Molybdenum	0.050	-			09/10 09/14	DFL
Nickel	0.050	•	EPA 6010		09/10 09/14	DFL
Potassium		- J	EPA 6010			
	5.0	U mg/L	EPA 6010		09/10 09/21	DFL
Selenium	0.10	U _ mg/L	EPA 6010		09/10 09/14	DFL
Silver	0.050	U J mg/LB 1	EPA 6010		09/10 09/14	DFL
Sodium	35	mg/L	EPA 6010		09/10 09/21	DFL
Thallium	0.0050	U mg/L	EPA 7841		09/09 09/10	KAW
Vanadium	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Zinc	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Dissolved Metals Analys			-			
ICP Screen, ICF			EPA	n/a		
Aluminum	0.10	U mg/L	EPA 6010		09/10 09/14	DFT.
Antimony	0.10	U mg/L	EPA 6010		09/10 09/14	DFL
Arsenic	0.10	U mg/L	EPA 6010		09/10 09/14	DFL
Barium	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Beryllium	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Cadmium	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Calcium	19	mg/L	EPA 6010		09/10 09/14	DFL
Chromium	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Cobalt	0.10	U mg/L	EPA 6010		09/10 09/14	DFL
Copper	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
iron	0.33	mg/L	EPA 6010		09/10 09/14	DFL
Lead	0.10	U mg/L	EPA 6010		09/10 09/14	DFL
Magnesium	11	mg/L	EPA 6010		09/10 09/14	DFL
Manganese	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Molybdenum	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Nickel	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Potassium	5.0	U mg/L	EPA 6010		09/10 09/21	DFL
Selenium	0.10	U pg/L /	EPA 6010		09/10 09/14	DFL
Silver	0.050	U JA Rog/LB/ J	EPA 6010		09/10 09/14	DFL
Sodium	35	mg/L	EPA 6010		09/10 09/21	DFL
Thallium	0.0050	U mg/L //	EPA 7841		09/09 09/10	KAW
Vanadium	0.050	II most all	FPA COID		09/10 09/14	DFL
Zinc	0.050	U mg/L	EPA 6010		09/10 09/14	DFL
Zine	0.050	ing/Lo	H		03/10 03/14	Dr L
TOC, Nonpurgable		Ĭ	EPA 9060	n/a		
TOC Range	24.8-25.7	mg/L	EPA 9060	11/0	09/14	CMR
TOC Concentration	25.2	mg/L	EPA 9060		09/14	CMR
IOC CONCENTRACTOR	23.2	m3/ L	mr w 3000		03/14	CIEC
Residue, Non-Filterable	9	mg/L	EPA 160.2		09/02 09/02	GPP
Residue, Filterable(TDS)	253	mg/L	EPA 160.2	500	09/02 09/02 09/17	RJK
westage't Trangmin(102)	255	mg/L	ELW TOO'T	500	03/10 03/11	NUN

See Sample Remarks Above

= Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than



SSS Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above

Undetected, Reported value is the practical quantification limit.



ENVIRONMENTAL LABORATORY SERVICES

5 N.C.E. 373

Matrix

REPORT of ANALYSIS

Chemlab Ref.= :93.4504~5 Client Sample ID :LON-BKGD-SW03

:WATER

WORK Order :70357

Report Completed :11/03/93

Collected :08/25/93 3 14:25 hrs Received :08/31/93 @ 15:10 hrs Technical Director:STEPHEN C. EDE

5633 B STREE

F4X: (907) 561-5301

ANCHORAGE, 4K 99518 TEL: (907) 562-2343

Released By : /

Client Name Ordered By Project Name

Project# PWSID

:RAY MORRIS :DEW LINE

:ICF KAISER ENGINEERING

:LONELY :UA

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, Z.M., AND PETER M.G. S270:/SAMPLE CALLS 0.0105 PPM ANILINE. THIS IS BELOW DETECTION LIMIT OF 0.0111.

Parameter	QC Results Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics			EPA 8260				
Benzene	0.0010 1	mg/L	EPA 8260		09/03	09/03	MCM
Bromopenzene	0.0010 U	mg/L	EPA 8260		09/03	09/03	MCM
Bromochloromethane	0.0010 U	mg/L	EPA 8260		09/03	09/03	MCM.
Bromodichloromethane	0.0010 U	mg/L	EPA 8260			09/03	MCM
Bromoform	0.0010 7	mg/L	EPA 8260		09/03	09/03	MCM
Bromomethane	0.0010 U	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
n-Butylbenzene	U 0100.0	mg/L	EPA 8260			09/03	MC <b>M</b>
sec-Butylbenzene	0.0010 0	mg/L	EPA 8260			09/03	
tert-Butylbenzne	0.0010 U	mg/L	EPA 8260			09/03	
Carbon Tetrachloride	0.0010 U	mg/Ĺ	EPA 8260			09/03	HICH
Chlorobenzene	០.0010 ប	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
Chloroethane	0.0010 U	mg/L				09/03	MCM
Chloroform	0.0010 U	mg/L				09/03	MCM
Chloromethane	ت 0.0010	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
2-Chlorotoluene	0. <b>001</b> 0 U	mg/Ĺ	EPA 8260		09/03	09/03	MCM
4-Chlorotoluene	0.0010 U	mg/L	EPA 8260		09/03	09/03	HC <b>H</b>
Dibromochloromethane	0.0010 U	mg/L	EPA 8260		09/03	09/03	<b>MCM</b>
12Dibromo3Chloropropane	0.0010 U	mg/L	EPA 8260		09/03	09/03	MCM
1,2-Dibromoethane	0.0010 5	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
Dibromomethane	0.0010 U	mg/L	EPA 8260		09/03	09/03	HC <b>H</b>
1,2-Dichlorobenzene	0.0010 U	mg/L	EPA 8260		09/03	09/03	МС <b>М</b>
1,3-Dichlorobenzene	0.0010 U	mg/L	EPA 8260		09/03	09/03	MCH
1,4-Dichlorobenzene	0.0010 U	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
Dichlorodifluoromethane	0 <b>.001</b> 0 U	mg/L	EPA 8260		09/03	09/03	MCM
1,1-Dichlorcethane	0.0010 U	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
1,2-Dichlorcethane	0.0057	mg/L	EPA 8260		09/03	09/03	MCM
1,1-Dichloroethene	0.0010 U	mg/L	EPA 8260		09/03	09/03	MC <b>K</b>
cis-1,2-Dichloroethene		mg/L	EPA 8260		09/03	09/03	MCM
trans1,2-Dichloroethene	0.0010 U	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
1,2-Dichloropropane	0.0010 U	mg/L	EPA 8260		09/03	09/03	MCM
1,3-Dichloropropane	0.0010 ೮	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
2,2-Dichloropropane	0.0010 법	mg/L	EPA 8260		09/03	09/03	MC <b>M</b>
1,1-Dichloropropene	0.0010 ប	mg/L	EPA 8260	•	09/03	09/03	MCM
Ethylbenzene	0.0010 U	mg/L	EPA 8260		09/03	09/03	MCM
Hexachlorobutadiene	0.0010 U	mg/L	EPA 8260		09/03	09/03	MCM
Isopropylbenzene	0.0010 3	mg/L	EPA 8260		09/03	09/03	HCH

## COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

NGE 1928		معاد	RT of Al	NINE VETE	
enemlab Ref.# :93.4504-5		KEFU	LYI OT WI	MALISIS	5633 B STREET
Client Sample ID :LON-BKGD-SV	au 3				ANCHORAGE, AK 99518
Matrix :WATER	.05				TEL: (907) 562-2343 FAX: (907) 561-5301
HAILA . HAILA					- 70.1907) 361-3301
p-Isopropyltoluene	0.0010	1.1	ma /ī	» 0.1.C0	30 (03, 00 (03,
Methylene Chloride	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCF
Napthalene		_	mg/L	EPA 8260	09/03 09/03 HCt
n-Propylbenzene	0.0010	IJ	mg/L	EPA 8260	09/03 09/03 MCt
Styrene	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCr
1112-Tetrachloroethane	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCF
1122-TetrachLoroethane	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCF
	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCM
Tetrachlorcethene	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCM
Toluene	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCM
1,2,3-Trichlorobenzene	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCM
1,2,4-Trichlorobenzene	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCM
1,1,1-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 MCM
1,1,2-Trichloroethane	0.0010	IJ	mg/L	EPA 8260	09/03 09/03 MCM
Trichlorcethene	0.0010	IJ	mg/L	EPA 8260	09/03 09/03 MCM
Trichlorofluoromethane	1.0010	ij	mg/L	EPA 8260	09/03 09/03 MCM
1,2,3-Trichloropropane	3.0010	ij	mg/L	₽A 8260	09/03 09/03 MCM
1,2,4-Trimethylbenzene	0.0010	IJ	mg/Ĺ	EPA 8260	09/03 09/03 MCM
1,3,5-Trimethylbenzene	3.0010	Ũ	mg/L	EPA 8260	39/03 09/03 MCM
Vinyl Chloride	0.0010	U	mg/L	EPA 8260	09/03 09/03 MCM
p+m-Xylene	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 MCM
o-Xylene	0.0010	U	mg/L	EPA 8260	09/03 09/03 MCM
Semivolatile Organics				EPA 8270	
Phenol	0.011	Ü	mg/L	EPA 8270	09/01 09/ <b>04</b> MTT
bis(2-Chloroethyl)ether	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
2-Chlorophenol	0.011	Ü	mg/L	EPA 8270	09/01 09/04 MTT
1,3-Dichloropenzene	0.011	U	mg/L	EPA 8270	09/01 09/ <b>0</b> 4 M <b>TT</b>
1,4-Dichlorobenzene	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
Benzyl Alcohol	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
1,2-Dichlorobenzene	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
2-Methylphenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
bis(2-Chloroisopropyl)e	0.011	IJ	mg/L	EPA 8270	39/01 09/04 MTT
4-Methylphenol	0.011	IJ	mg/L	EPA 8270	09/01 09/04 MTT
n-Nitroso-di-n-Propylam	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
Hexachloroethane	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
Nitrobenzene	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
Isophorone	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
2-Nitrophenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
2,4-Dimethylphenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
Benzoic Acid	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
bis(2-Chloroethoxy)Meth	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
2,4-Dichlorophenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
1,2,4-Trichlorobenzene	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
Naphthalene	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
4-Chloroaniline	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
Hexachlorobutadiene	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
4-Chloro-3-Methylphenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
2-Methylnaphthalene	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
Hexachlorocyclopentadie	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
2,4,6-Trichlorophenol	0.011	U	mg/L	EPA 8270	09/01 09/04 MTT
2,4,5-Trichlorophenol	0.011	U	mg/L	EPA 8270	09/01 09/04 HTT
			<b></b> -	······································	33, 32 33, 31



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STRE :93.4504-5 Chemlab Ref.# ANCHORAGE, AK 99518 Client Sample ID :LON-BKGD-SW03 TEL: (907) 562-2343 FAX: (907) 561-5301 :WATER 2-Chloronaphthalene 0.011 EPA 8270 09/01 09/04 ma/L MIT 2-Nitroaniline 0.011 mg/L EPA 8270 09/01 09/04 MTI 0.011 EPA 8270 Dimethylphthalate mq/L 09/01 09/04 MTT Acenaphthylene 0.011 ij mq/L EPA 8270 09/01 09/04 MTT 2.6-Dinitrotoluene 0.011 IJ mq/L EPA 8270 09/01 09/04 MTT 3-Nitroaniline 0.011 ij mg/L EPA 8270 09/01 09/04 MIT Acenaphthene 0.011 1 mg/L EPA 8270 09/01 09/04 MTI 2,4-Dinitrophenol 0.011 H EPA 8270 mg/L 09/01 09/04 MTT 0.011 4-Nitrophenol Ħ mq/L EPA 8270 09/01 09/04 MTT 0.011 Dibenzofuran EPA 8270 mg/L 09/01 09/04 MTT 2,4-Dinitrotoluene 0.011 EPA 8270 09/01 09/04 mg/L MTT Diethylphthalate 0.011 EPA 8270 09/01 09/04 mg/L MTT 4-Chlorophenyl-Phenylet 0.011 EPA 8270 mg/L 09/01 09/04 MTT Fluorene 0.011 EPA 8270 mg/L 09/01 09/04 MTT 4-Nitroaniline 0.011 EPA 8270 mg/L 09/01 09/04 MTT 4,6-Dinitro-2-Methylphe 0.011 EPA 8270 09/01 09/04 ma/L MTT n-Nitrosodiphenylamine EPA 8270 0.011 mg/L 09/01 09/04 MTT 4-Bromophenvl-Phenvleth 0.011 mg/L EFA 8270 09/01 09/04 MTT Hexachlorobenzene 0.011 EPA 8270 09/01 09/04 mq/L MTT Pentachlorophenol 0.011 EPA 8270 09/01 09/04 mq/L MTT Phenanthrene 0.011 mq/L EPA 8270 09/01 09/04 MTT Anthracene 0.011 IJ EPA 8270 09/01 09/04 mq/L MTT di-n-Butylphthalate 0.011 U EPA 8270 09/01 09/04 mg/L Fluoranthene 0.011 11 EPA 8270 mg/L 09/01 09/04 0.011 Pyrene  $\Pi$ EPA 8270 mg/L 09/01 09/04 FIT I Butylbenzylphthalate 0.011 U mg/L EPA 8270 09/01 09/04 MTT 3,3-Dichlorobenzidine 0.011 EPA 8270 mg/L 09/01 09/04 MTT 0.011 Benzo(a)Anthracene EPA 8270 09/01 09/04 mg/L MTT Chrysene 0.011 EPA 8270 09/01 09/04 mq/L MTT bis(2-Ethylhexyl)Phthal 0.011 EPA 8270 09/01 09/04 mq/L MTT di-n-Octylphthalate 0.011 EPA 8270 mg/L 09/01 09/04 MTT Benzo(b)Fluoranthene 0.011 EPA 8270 09/01 09/04 mg/L MTT 09/01 09/04 Benzo(k)Fluoranthene 0.011 EPA 8270 mg/L MTT Benzo(a)Pyrene 0.011 U EPA 8270 mg/L 09/01 09/04 MTT Indeno(1,2,3-cd)Pyrene 0.011 U EPA 8270 mg/L 09/01 09/04 MTT Dibenz(a,h)Anthracene 0.011 U EPA 8270 09/01 09/04 mg/L MTT Benzo(g,h,i)Perylene 0.011 IJ EPA 8270 mg/L 09/01 09/04 MTT Total Metals Analysis ICP Screen, ICF EPA n/a Aluminum 0.10 U mq/L EPA 6010 09/10 09/14 DFT. Antimony 0.10 IJ mq/L EPA 6010 09/10 09/14 DFL Arsenic 0.10 U mq/L EPA 6010 09/10 09/14 DFL 0.062 Barium EPA 6010 09/10 09/14 mg/L DFL Beryllium 0.050 EPA 6010 U 09/10 09/14 mg/L DFL Cadmium 0.050 ij EPA 6010 mg/L09/10 09/14 DFL Calcium 34 EPA 6010 09/10 09/14 mq/L DFL Chromium 0.050 EPA 6010 U mg/L 09/10 09/14 DFL Cobalt 0.10 U mg/L EPA 6010 09/10 09/14 DFL Copper 0.050 Ü mq/L EPA 6010 09/10 09/14 DFL 0.58 Iron mq/L EPA 6010 09/10 09/14 DEL



ENVIRONMENTAL LABORATORY SERVICES

40€ 1909		REPORT of At	NALYSTS			
Client Sample ID :[	3.4504-5	NEI ON TOP ME			5533 B STR ANCHORAGE, AK 9 TEL: (907) 562- FAX: (907) 561-:	9513 2343
Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver	0.10 22 0.050 0.050 0.050 5.0 0.10 0.050	U mg/L mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L	EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010		09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/21 09/10 09/14 09/10 09/14	
Sodium Thallium Vanadium Zinc	68 0.0050 0.050 0.050	mg/L U mg/L U mg/L U mg/L	EPA 6010 EPA 7841 EPA 6010 EPA 6010		09/10 09/21 09/09 09/10 09/10 09/14 09/10 09/14	DFT KA' DFT DFT
Dissolved Metals ICP Screen. ICF Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	Analys 0.10 0.10 0.060 0.050 0.050 0.10 0.050 0.19 0.10 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L U mg/L	EPA EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010	n/a	09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14 09/10 09/14	DEL DEL DEL DEL DEL DEL DEL DEL DEL DEL
TOC, NonpurgableTOC RangeTOC Concentrat	26.2-26.8 tion 26.5	mg/L mg/L	EPA 9060 EPA 9060 EPA 9060	n/a	09/13 09/13	CMR CMR
Residue, Non-Filt Residue,Filterabl		mg/L mg/L	EPA 160.2 EPA 160.1	500	09/02 09/02 09/16 09/17	GP <b>P</b> R <b>JK</b>

See Special Instructions Above UA = Unavailable

See Sample Remarks Above = Undetected, Reported value is the practical quantification limit. D = Secondary dilution.

NA = Not AnalyzedLT = Less Than GT = Greater Than



SSS Member of the SGS Group (Société Générale de Surveillance)

ICF ID	LON-BKGD-S01	LON-BKGD-SD01	LON-BKGD-SD02
F&BI Number	699	734	700 Cm Am
Sample Type	soil	soil	soil by 5 yes
Date Received	8/26/93	8/26/93	8/26/93 <b>v</b>
% Dry Weight	26	57	15
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
Leaded Gas			
JP-4	< 190	< 90	<330
Lube Oil	<380	< 180	< 670
Diesel	< 190	150 ブ	<330
Spike Level			
Unknown Semi-volatile	840 biological	60 biological	
Pentacosane	128	103	127
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
PCB 1221	£0.Tcp.4	< 0.1	<0.1 <0.7
PCB 1232	<.0.1	< 0.1	<del>50.</del> 1
PCB 1016	50.1	< 0.1	<del>⊆0.</del> 1
PCB 1242	<0.1 │	< 0.1	<0.1
PCB 1248	<b>&lt;0.1</b>	< 0.1	<0.1
PCB 1254	<b>←0.1</b> ∫	< 0.1	<del>&lt;0.1</del> ↓
PCB 1260	<0.1 V	< 0.1	<0.T V
Spike Level			
Dibutyl Chlorendate	128	103	127
Sequence Date	#6-08/26/93	#6-08/26/93	#6-08/26/93
alpha-BHC	< 0.07 < 0.045	£0.01<0.02J	50.01 20.075
beta-BHC	< 0.0T	≤ <del>0.01</del>	<0.01
gamma-BHC	< 0.01	< 9.01	<0.01
delta-BHC	<.0.01	< <del>0.0</del> T	<0.01
Heptachlor	< 0.01	<b>≤0.0</b> 1	<0.01
Aldrin	< 0.01	< <del>0.0</del> 1	< 0.01
Heptachlor Epoxide	< 0.01	< <del>0.0</del> 1	<0.01
Endosulfan l	<,0.01	<b>≤0.</b> 01	< 0.01
DDE	<.0.01	≤0.01	< 0.01
Dieldrin	< 9.01	<-0.01	< 0.01
Endrin	< 0.01	<0.01	< 0.01
Endosulfan II	< 0.01	< 0.01	<0.01
DDD	< 0.01	< 0.01	< 0.01
Endrin Aldehyde	<.0.01	<0.01	<0.01
DDT	< 0.01	< <del>0.01</del>	<0.01
Endosulfan Sulfate	< 0.01	≤ <del>0.0</del> 1	<0.01
Endrin Ketone	<0.01 ¥	<0.01 V	<0.01 <b>V</b>
Methoxy Chlor	50.1605 J	50.TC0.5J	SO.7 20.5 J
Chlordane	<0.5 T	<0.5 ず	<0.5 丁
Dibutyl Chlorendate	115	103	125
Spike Level			
Vol Sequence	#1&2-08/28/93	#1&2-08/28/93	#1&2-08/28/93
CCI4	<0.2	< 0.04	< 0.3
TCA	< 0.2	< 0.04	< 0.3
Benzene	< 0.2	< 0.04	< 0.3
TCE	< 0.2	< 0.04	< 0.3
Toluene	< 0.2	0.2	< 0.3
PCE	< 0.2	< 0.04	< 0.3
Ethylbenzene	< 0.2	0.5	<0.3
Xylenes	< 0.4	2 <b>J</b>	< 0.6
Gasoline	<20丁	27 <b>ፓ</b>	<30 ブ
Spike level			
BFB	86	92	76

	CF ID	LON-ST10-2SD03	LON-BKGD-SW01	LON-BKGD-SW01
	&BI Number	1773	706	707 ( <b>m</b> [],
	ample Type	soil	water	water by
	ate Received	9/5/93	8/26/93	8/26/93
	6 Dry Weight	17		"F 00 (07 100
,	Sequence Date	#5-09/06/93		#5-08/27/93
	eaded Gas			. 222
	P-4	< 300		< 200
	ube Oil	< 600		< 2000
	Diesel	< 300		£200 < 1000
	Spike Level			
L	Jnknown Semi-volatile			
P	Pentacosane	120		96
	Sequence Date			#5-08/27/93
	PCB 1221			< 2
	PCB 1232			< 2
F	PCB 1016			<2
F	PCB 1242			< 2
F	PCB 1248			< 2
F	PCB 1254			< 2
F	PCB 1260			< 2
5	Spike Level			
	Dibutyl Chlorendate			96
5	Sequence Date			#5-08/27/93
a	alpha-BHC			5240.ZJ
b	oeta-BHC			<2
ξ	gamma-BHC			<2
C	delta-BHC			<2
ŀ	Heptachlor			<2
) A	Aldrin			<2
H	Heptachlor Epoxide			<2
E	Endosulfan I			<2
[	DDE			<2
ſ	Dieldrin			<2
	Endrin			<2
1	Endosulfan II			<2
I	DDD			<2
ı	Endrin Aldehyde			<2
ı	DDT			< 2
ı	Endosulfan Sulfate			<2
-	Endrin Ketone			<2 <b>Y</b>
	Methoxy Chlor			520 LIOT
4	Chlordane			550 210J
	Dibutyl Chlorendate			96
:	Spike Level			
,	Vol Sequence		#3&4-08/25/93	
	CCI4		<1	
•	TCA		< 1	
	Benzene		<1	
•	TCE		<1 *	
	Toluene		< 1	
	PCE		<1	
Ļ	Ethylbenzene		< 1	
F	Xylenes		< 2	
	Gasoline		SEO 100J	
	Spike level			
	BFB		111	

ICF ID	LON-BKGD-SW02 666	LON-BKGD-SW02 672	672 688 ( <b>6</b> °				
F&BI Number Sample Type	water	water	h.1				
Date Received	8/26/93	8/26/93	8/26/93				
% Dry Weight	3/20/00	<b>372</b> 3733					
Sequence Date	#5-08/27/93		#5-08/27/93				
Leaded Gas	# 0 00/27/00		•				
JP-4	< 200		< 200				
Lube Oil	<2000		< 2000				
Diesel	£200 < 1000		£200 000</td				
Spike Level	3.200 /200						
Unknown Semi-volatile							
Pentacosane	87		80				
Sequence Date	#5-08/27/93		#5-08/27/93				
PCB 1221	< 2		<2				
PCB 1232	< 2		< 2				
PCB 1016	<2		<2				
PCB 1242	<2		<2				
PCB 1248	< 2		<2				
PCB 1254	< 2		< 2				
PCB 1260	< 2		< 2				
Spike Level							
Dibutyl Chlorendate	87		80				
Sequence Date	#5-08/27/93		#5-08/27/93				
alpha-BHC	<2 < 0. 2 J		2 LO.2J</td				
beta-BHC	<2		<2				
gamma-BHC	<2		\$ <u>/2</u>				
delta-BHC	<2						
Heptachlor	<2		</td				
Aldrin	<2		2</td				
Heptachlor Epoxide	<2		\$72				
Endosulfan l	<2		2</td				
DDE	<2		×2				
Dieldrin	<2		2</td				
Endrin	<2		2</td				
Endosulfan II	<2		\$2				
DDD	<2		\$2 \$2 \$2				
Endrin Aldehyde	<2		×2				
DDT	<2		×2 ×2				
Endosulfan Sulfate	<2		×2 <b>×2</b> √				
Endrin Ketone	<2 <b>V</b>		\$20 < 10 J				
Methoxy Chlor	520 C/07		£50 40 T				
Chlordane	87		80				
Dibutyl Chlorendate	07						
Spike Level		#3&4-08/25/93					
Vol Sequence		<1					
CCI4 TCA		<1					
		<1					
Benzene TCE		<1 :					
Toluene		<1					
PCE		<1					
Ethylbenzene		<1					
Xylenes		<2					
Gasoline		550 4/00 J	`				
Spike level							
BFB		113					
5, 5		· · -					

ICF ID LON-BKGD-SW03 690 F&BI Number water Sample Type 8/26/93 **Date Received** % Dry Weight Sequence Date Leaded Gas JP-4 Lube Oil Diesel Spike Level Unknown Semi-volatile Pentacosane Sequence Date PCB 1221 PCB 1232 PCB 1016 PCB 1242 PCB 1248 PCB 1254 PCB 1260 Spike Level Dibutyl Chlorendate Sequence Date alpha-BHC beta-BHC gamma-BHC delta-BHC Heptachlor Aldrin Heptachlor Epoxide Endosulfan I DDE Dieldrin Endrin Endosulfan II DDD Endrin Aldehyde DDT Endosulfan Sulfate Endrin Ketone Methoxy Chlor Chlordane Dibutyl Chlorendate Spike Level #3&4-08/25/93 Vol Sequence CCI4 < 1 < 1 TCA

Benzene TCE

Toluene

**Xylenes** 

Gasoline Spike level BFB

Ethylbenzene

PCE

< 1

< 1

< 1

< 1

<1 <2

118

50c100 J

Confident by 505 ANALYTICAL DATA SHEETS FOR QA/QC



Matrix

### COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET

ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Chemlab Ref.# Client Sample ID :LON-EB-01

:93.4357-1

:WATER

:ICF KAISER ENGINEERING

Ordered By :RAY MORRIS Project Name :DEW LINE

Project# PWSID

Client Name

:LONELY

:UA

WORK Order :70127

Report Completed :10/15/93

Collected :08/24/93 @ 18:00 hrs. Received :08/26/93 @ 12:00 hrs.

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M. AND M. LEMMA.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		09/02	09/02	MC <b>M</b>
Bromobenzene	0.0010	U	mg/L	EPA 8260		09/02		MC <b>M</b>
Bromochloromethane	0.0010	U	mg/L	EPA 8260		09/02		MCM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260		09/02		MCM
Bromoform	0.0010	U	mg/L	EPA 8260		09/02		MCM
Bromomethane	0.0010	U	mg/L	EPA 8260		09/02		MCM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/02		MCM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/02		MCM
ert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/02		MCM
tarbon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/02		MCM
Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/02		MCM
Chloroethane	0.0010	U	mg/L	EPA 8260		09/02		MCM
Chloroform	0.0010	U	mg/L	EPA 8260		09/02		HCM
Chloromethane	0.0010	U	mg/L	EPA 8260		09/02		иси
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/02		MCM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/02		HCM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260		09/02		MCM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/02		HCM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/02		HC <b>H</b>
Dibromomethane	0.0010	U	mg/L	EPA 8260		09/02		MCM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/02		MCM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/02		MCM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/02		HCM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/02		MCM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/02		HCH
1,2-Dichloroethane	0.0039		mg/L	EPA 8260		09/02		MCM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/02		MCM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/02		HCM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/02		HCM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/02		MCM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/02		MCM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/02	09/02	MCM
1.1-Dichloropropene	0.0010	U	mg/L	EPA 8260	•	09/02		MCM
Ethylbenzene	0.0010	U	mg/L	EPA 8260		09/02		HCM
Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/02		MCM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/02		HCM
P-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/02		MCM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Chemlab Ref.# :93.4357-1 Client Sample ID :LON-EB-01 Matrix :WATER

V 111 1 2 2 2 2 2						
Methylene Chloride	0.0010 U	me /T	FD\$ 0044			
Napthalene	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
n-Propylbenzene	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
Styrene		mg/L	EPA 8260		09/02 09/02	MCM
1112-Tetrachloroethane		mg/L	EPA 8260		09/02 09/02	MCM
1122-Tetrachloroethane		mg/L	EPA 8260		09/02 09/02	MCM
Tetrachloroethene	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
Toluene	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
1,2,3-Trichlorobenzene	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCH
1,2,4-Trichlorobenzene	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
1,1,1-Trichloroethane	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
1 1 2 Trichloroethane	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
1,1,2-Trichloroethane	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
Trichloroethene	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
Trichlorofluoromethane	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
1,2,3-Trichloropropane	0 <b>.0010</b> U	mg/L	EPA 8260		09/02 09/02	
1,2,4-Trimethylbenzene	0 <b>.0010</b> U	mg/L	EPA 8260		09/02 09/02	HCM
1,3,5-Trimethylbenzene	0 <b>.001</b> 0 U	mg/L	EPA 8260		09/02 09/02	HCM
Vinyl Chloride	0.0010 ប	mg/L	EPA 8260		09/02 09/02	MCM
P+m-Xylene	0.0010 U	mg/L	EPA 8260		09/02 09/02	MCM
o-Xylene	0 <b>.001</b> 0 U	mg/L	EPA 8260			MCM
Complete and the		J. –	<u> </u>		09/02 09/02	MCM
Semivolatile Organics			EPA 8270			
Phenol	0.029 U	mg/L	EPA 8270		08/31 09/10	4
bis(2-Chloroethyl)ether	0.029 ប	mg/L	EPA 8270		08/31 09/10	N/mm
2-Chlorophenol	0 <b>.02</b> 9 U	mg/L	EPA 8270		08/31 09/10	MTT
1,3-Dichlorobenzene	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
1,4-Dichlorobenzene	0 <b>.02</b> 9 U	mg/L	EPA 8270			MTT
Benzyl Alcohol	0 <b>.02</b> 9 U	mg/L	EPA 8270		08/31 09/10	MTT
1,2-Dichlorobenzene	0 <b>.02</b> 9 U	mg/L	EPA 8270		08/31 09/10 08/31 09/10	MTT
2-Methylphenol	0 <b>.02</b> 9 U	mg/L	EPA 8270		08/31 09/10	MTT
bis(2-Chloroisopropyl)e	0 <b>.02</b> 9 U	mg/L	EPA 8270			MTT
4-Methylphenol	0 <b>.029</b> U	mg/L	EPA 8270		08/31 09/10	MTT
n-Nitroso-di-n-Propylam	0 <b>.0</b> 29 U	mg/L	EPA 8270		08/31 09/10	MTT
Hexachloroethane	0 <b>.029</b> ប	mg/L	EPA 8270		08/31 09/10	MTT
Nitrobenzene	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
Isophorone	0. <b>0</b> 29 U	mg/L	EPA 8270		08/31 09/10	MTT
2-Nitrophenol	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
2,4-Dimethylphenol	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
Benzoic Acid	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
bis(2-Chloroethoxy)Meth	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
2,4-Dichlorophenol	0.029 U	mg/L			08/31 09/10	MTT
1,2,4-Trichlorobenzene	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
Naphthalene	0. <b>029</b> U	mg/L	EPA 8270		08/31 09/10	MTT
4-Chloroaniline	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
Hexachlorobutadiene	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
4-Chloro-3-Methylphenol	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
2-Methylnaphthalene	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
Hexachlorocyclopentadie	0 <b>.02</b> 9 U	mg/L mg/L	EPA 8270		08/31 09/10	MTT
2,4,6-Trichlorophenol	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
2,4,5-Trichlorophenol	0.029 U	mg/Ľ	EPA 8270		08/31 09/10	MTT
2-Chloronaphthalene	0.029 U	mg/L	EPA 8270		08/31 09/10	1
		iiiල/ Li	EPA 8270	(	08/31 09/10	•





# COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

1908						
Chemlab Ref.# :93.4357-1	RE	PORT of AN	ALYSIS		5533 B S ANCHORAGE, AK	99518
Client Sample ID :LON-EB-01					TEL: (907) 56	
Matrix :WATER					FAX: (907) 56	1.5301
2-Nitroaniline	0.029 ប	mg/L	EPA 8270		08/31 09/10	MTT
Dimethylphthalate	0.029 บ	mg/L	EPA 8270		08/31 09/10	MTT
Acenaphthylene	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
2,6-Dinitrotoluene	0.029 U	mg/L	EPA 8270		08/31 09/10	MTT
3-Nitroaniline	0.029 บ	mg/L	EPA 8270		08/31 09/10	MTT
Acenaphthene	<b>0.02</b> 9 U	mg/L	EPA 8270		08/31 09/10	MTT
2,4-Dinitrophenol	0.029 U		EPA 8270		08/31 09/10	MTT
4-Nitrophenol	0 <b>.0</b> 29 U	_,	EPA 8270		08/31 09/10	MTT
Dibenzofuran	0. <b>0</b> 29 U	51 —	EPA 8270		08/31 09/10	MTT
2,4-Dinitrotoluene	0.029 U		EPA 8270		08/31 09/10	MTT
Diethylphthalate	0.029 U		EPA 8270		08/31 09/10	MTT
4-Chlorophenyl-Phenylet Fluorene	0.029 U	J, —	EPA 8270		08/31 09/10	MTT
4-Nitroaniline	0.029 U	J, —	EPA 8270		08/31 09/10	MTT
4,6-Dinitro-2-Methylphe	0.029 U 0.029 U	. 3,	EPA 8270		08/31 09/10	MTT
n-Nitrosodiphenylamine	0.029 U 0.029 U		EPA 8270		08/31 09/10	MTT
4-Bromophenyl-Phenyleth	0.029 U	··· Jr —	EPA 8270		08/31 09/10	MTT
Hexachlorobenzene	0.029 U	·· J, —	EPA 8270		08/31 09/10	MTT
Pentachlorophenol	0.029 U		EPA 8270 EPA 8270		08/31 09/10	MTT
Phenanthrene	0.029 U		EPA 8270		08/31 09/10 08/31 09/10	MTT MTT
Anthracene	0.029 U	5,	EPA 8270		08/31 09/10	MTT
di-n-Butylphthalate	0.029 U	J, —	EPA 8270		08/31 09/10	MTT
Fluoranthene	0.029 U		EPA 8270		08/31 09/10	MTT
yrene	0.029 U		EPA 8270		08/31 09/10	HTT
Butylbenzylphthalate	0.029 U		EPA 8270		08/31 09/10	MTT
3,3-Dichlorobenzidine	0 <b>.0</b> 29 U	mg/L	EPA 8270		08/31 09/10	MTT
Benzo(a)Anthracene	0.029 U	5,	EPA 8270		08/31 09/10	MTT
Chrysene	0.029 U	5, —	EPA 8270		08/31 09/10	MTT
bis(2-Ethylhexyl)Phthal	0.029 U		EPA 8270		08/31 09/10	MTT
di-n-Octylphthalate Benzo(b)Fluoranthene	0.029 U	Jr —	EPA 8270		08/31 09/10	MTT
Benzo(k)Fluoranthene	0.029 U	57	EPA 8270		08/31 09/10	MTT
Benzo(a)Pyrene	0.029 U 0.029 U		EPA 8270		08/31 09/10	MTT
Indeno(1,2,3-cd)Pyrene	0.029 U 0.029 U	j, <u>—</u>	EPA 8270		08/31 09/10	MTT
Dibenz(a,h)Anthracene	0.029 U	mg/L mg/L	EPA 8270 EPA 8270		08/31 09/10	MTT
Benzo(g,h,i)Perylene	0.029 U	mg/L	EPA 8270		08/31 09/10 08/31 09/10	MTT MTT
matal Matal and a		3, =	02.1		00,31 03,10	
Total Metals Analysis ICP Screen, ICF			_			
Aluminum	0.10 U	m == /T	EPA COLO	n/a	20120 2012	
Antimony	0.10 U 0.10 U	mg/L mg/L	EPA 6010		09/02 09/06	DLG
Arsenic	0.10 U	mg/L	EPA 6010 EPA 6010		09/02 09/06	DLG
Barium	0.050 U	mg/L	EPA 6010		09/02 09/06	DLG
Beryllium	0.050 U	mg/L	EPA 6010		09/02 09/06 09/02 09/06	DLG DLG
Cadmium	0.050 U	mg/L	EPA 6010		09/02 09/06	DLG
Calcium	0.27	mg/L	EPA 6010		09/02 09/06	DLG
Chromium	0.050 U	mg/L	EPA 6010	. *	09/02 09/06	DLG
Cobalt	0.10 U		EPA 6010		09/02 09/06	DLG
Copper	0.050 U	mg/L	EPA 6010		09/02 09/06	DLG
Iron	0.10 U	mg/L	EPA 6010		09/02 09/06	DLG
Lead	0.10 U	mg/L	EPA 6010		09/02 09/06	DLG



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET Chemlab Ref.# :93.4357-1 ANCHORAGE, AK 99518 Client Sample ID :LON-EB-01 TEL: (907) 562-2343 FAX: (907) 561-5301

atrix :	WATER							•	, 04. (301) 301	-550 .
	THE TAX	(	Qua	Life Come	e.t					
Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	0.20 0.050 0.050 0.050 0.10 0.050 0.37 0.005 0.050	U U U U U U U U U U U U U U U U U U U		mg/L mg/L mg/L mg/L mg/L mg/L mg/L g/L g/L g/L mg/L m	EPA EPA EPA EPA EPA EPA EPA	6010 6010 6010 6010 6010 6010 6010 7841 6010 6010		09/02 09/02 09/02 09/02 09/02 09/02 09/03	09/06 09/06 09/06 09/06 09/06 09/06 09/06 09/06 09/06 09/06	DLG DLG DLG DLG DLG DLG DLG DLG DLG DLG
TOC, NonpurgableTOC RangeTOC Concentra	5.0-5.0	U U		mg/L mg/L	EPA	9060 9060 9060	n/a		09/07 09/07	CMR CMR

An chays s. 2/24/54

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

hemlab Ref.#

:93.4357-3

Client Sample ID :LON-EB-01 DUPLICATE

Matrix

PWSID

:WATER

Client Name Ordered By

:RAY MORRIS

Project Name Project#

:DEW LINE :LONELY

:ICF KAISER ENGINEERING

:UA

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

WORK Order :70127

Report Completed :10/15/93

Collected :08/24/93 @ 18:00 hrs. Received

:08/26/93 @ 12:00 hrs. Technical Director: STEPHEN, C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M. AND M. LEMMA.

Parameter	QC Results Qua	l Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Total Metals Analysis ICP Screen, ICF Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	0.10 U 0.10 U 0.10 U 0.050 U 0.050 U 0.050 U 0.050 U 0.10 U 0.050 U 0.10 U 0.10 U 0.20 U 0.050 U 0.10 U 0.20 U 0.050 U 0.37 0.005 U 0.050 U	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010		09/02 09/02 09/02 09/02 09/02	09/06 09/06 09/06 09/06 09/06 09/06 09/06 09/06 09/06 09/06 09/06	DLG DLG DLG DLG DLG DLG DLG DLG DLG DLG

See Special Instructions Above

See Sample Remarks Above

Undetected, Reported value is the practical quantification limit. D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than



Chemlab Ref.#

### COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

:93.4357-2 Client Sample ID : LON-EB-01 SPIKE

Matrix :WATER

Client Name Ordered By :RAY MORRIS

Project Name :DEW LINE Project# : LONELY PWSID

:ICF KAISER ENGINEERING

:UA

:70127 WORK Order

Report Completed :10/15/93

Collected :08/24/93 @ 18:00 hrs. Received :08/26/93 @ 12:00 hrs.

5633 B STF ANCHORAGE, AK 99

TEL: (907) 562-2343

FAX: (907) 561-5301

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M. AND M. LEMMA. FOR 8260 SPIKE, SEE WO#

93.4356-3.

 Parameter 	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Semivolatile Organics				EPA 8270				
Phenol	0.080		mg/L	EPA 8270		08/31	09/10	MTT
bis(2-Chloroethyl)ether	0.040	U	mg/L	EPA 8270			09/10	MTT
2-Chlorophenol	0.142		mg/L	EPA 8270			09/10	MTT
1,3-Dichlorobenzene	0.040	U	mg/L	EPA 8270			09/10	MTT
1,4-Dichlorobenzene	0.102		mg/L	EPA 8270			09/10	MTT
Benzyl Alcohol	0.040	U	mg/L	EPA 8270			09/10	MTT
1,2-Dichlorobenzene	0.040	U	mg/L	EPA 8270			09/10	MTT
2-Methylphenol	0.040	U	mg/L	EPA 8270			09/10	
bis(2-Chloroisopropyl)e	0.040	U	mg/L	EPA 8270			09/10	
4-Methylphenol	0.040	U	mg/L	EPA 8270			09/10	MTT
n-Nitroso-di-n-Propylam	0.156		mg/L	EPA 8270			09/10	MTT
Hexachloroethane	0.040	U	mg/L	EPA 8270			09/10	MTT
Nitrobenzene	0.040	U	mg/L	EPA 8270			09/10	MTT
Isophorone	0.040	U	mg/L	EPA 8270			09/10	MTT
2-Nitrophenol	0.040	U	mg/L	EPA 8270			09/10	MTT
2,4-Dimethylphenol	0.040	U	mg/L	EPA 8270			09/10	MTT
Benzoic Acid	0.040	U	mg/L	EPA 8270		08/31		MTT
bis(2-Chloroethoxy)Meth	0.040	U	mg/L	EPA 8270			09/10	MTT
2,4-Dichlorophenol	0.040	U	mg/L	EPA 8270			09/10	MTT
1,2,4-Trichlorobenzene	0.125		mg/L	EPA 8270		08/31		MTT
Naphthalene	0.040	U	mg/L	EPA 8270			09/10	MTT
4-Chloroaniline	0.040	U	mg/L	EPA 8270		08/31		MTT
Hexachlorobutadiene	0.040	U	mg/L	EPA 8270		08/31		MTT
4-Chloro-3-Methylphenol	0.159		mg/L	EPA 8270		08/31		MTT
2-Methylnaphthalene	0.040	U	mg/L	EPA 8270		08/31		MTT
Hexachlorocyclopentadie	0.040	U	mg/L	EPA 8270		08/31		MTT
2,4,6-Trichlorophenol	0.040	U	mg/L	EPA 8270		08/31	09/10	MTT
2,4,5-Trichlorophenol	0.040	U	mg/L	EPA 8270		08/31		MTT
2-Chloronaphthalene	0.040	U	mg/L	EPA 8270		08/31	09/10	MTT
2-Nitroaniline	0.040	U	mg/L	EPA 8270		08/31	09/10	MTT
Dimethylphthalate	0.040	U	mg/L	EPA 8270		08/31	09/10	MTT
Acenaphthylene	0.040	U	mg/L	EPA 8270	*	08/31	09/10	MTT
2,6-Dinitrotoluene	0.040	U	mg/L	EPA 8270		08/31		MTT
3-Nitroaniline	0.040	U	mg/L	EPA 8270		08/31	09/10	MTT
Acenaphthene	0.157		mg/L	EPA 8270		08/31		MTT
2,4-Dinitrophenol	0.040	Ü	mg/L	EPA 8270		08/31	09/10	





ENVIRONMENTAL LABORATORY SERVICES

hemlab Ref.# :93.4357-2 Client Sample ID :LON-EB-01 Matrix :WATER	SPIKE	REPORT of AN	HALYSIS		5633 B ( ANCHORAGE, A) TEL: (907) 5: FAX: (907) 5:	< 99518 52-2343
4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenyl-Phenylet Fluorene 4-Nitroaniline 4,6-Dinitro-2-Methylphe n-Nitrosodiphenylamine 4-Bromophenyl-Phenyleth Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene di-n-Butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)Anthracene Chrysene bis(2-Ethylhexyl)Phthal di-n-Octylphthalate Benzo(b)Fluoranthene Benzo(a)Pyrene Indeno(1,2,3-cd)Pyrene Dibenz(a,h)Anthracene Benzo(g,h,i)Perylene	0.057 0.040 0.175 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.127 0.040 0.122 0.040 0.187 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040 0.040	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270		08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10 08/31 09/10	MIT HIT HIT HIT HIT HIT HIT HIT HIT HIT H
Total Metals Analysis ICP Screen, ICF Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver	1.08 0.88 0.90 1.00 0.39 0.47 9.34 0.97 0.94 1.01 0.95 0.91 9.4 0.99 0.98 0.95 9.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010	n/a	09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06 09/02 09/06	DLG DLG DLG DLG DLG DLG DLG DLG DLG DLG





ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

:93.4357-2 Chemlab Ref.#

Matrix

:WATER

Client Sample ID :LON-EB-01 SPIKE

Sodium 9.45 mg/L EPA 6010 Thallium 0.018 mg/L EPA 7841 Vanadium 0.94 Mq/LEPA 6010 Zinc mg/L EPA 6010

09/02 09/06 DLG 09/03 09/08 BMW

5633 B S1

FAX: (907) 561-5301

ANCHORAGE, AK 9 TEL: (907) 562-2343

09/02 09/06 DLG

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable,

NA = Not AnalyzedLT = Less Than

GT = Greater Than



**SGS** Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

hemlab Ref.# :93.4357-9

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL. (907) 562-2343

Matrix

Client Sample ID :LON-EB-01 SPIKE DUPLICATE

:WATER

FAX: (907) 561-5301

Client Name Ordered By

:ICF KAISER ENGINEERING

WORK Order :70127

Project Name : DEW LINE

:RAY MORRIS

Report Completed :10/15/93

Project#

PWSID

:LONELY

:UA

Collected :08/24/93 @ 18:00 hrs.

Received

:08/26/93 @ 12:00 hrs.

Technical Director: STEPHEN, C. EDE

Released By :

Horesteac Sample Remarks: SAMPLE COLLECTED BY: JERRY M. AND M. LEMMA. FOR 8260 SPIKE DUPLICATE,

SEE WO# 93.4356-5.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date		Init
Semivolatile Organics Phenol bis(2-Chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol bis(2-Chloroisopropyl)e 4-Methylphenol n-Nitroso-di-n-Propylam Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Benzoic Acid bis(2-Chloroethoxy)Meth 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloro-3-Methylphenol 2-Methylnaphthalene Hexachlorocyclopentadie 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene	Results  0.120 0.035 0.156 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035	Qual	Units  mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Method  EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270 EPA 8270		Date  08/31 08/31 08/31 08/31 08/31 08/31 08/31 08/31 08/31 08/31 08/31	Date  09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10	Init  MIT MIT MIT MIT MIT MIT MIT MIT MIT MIT
2,4-Dinitrophenol	0.035	U	mg/Kg	EPA 8270		08/31	09/10	MTT



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STR Chemlab Ref.# :93.4357-9 ANCHORAGE, AK 99518 Client Sample ID :LON-EB-01 SPIKE DUPLICATE TEL: (907) 562-2343 FAX (907) 561-5301 Matrix :WATER 4-Nitrophenol 0.124 mg/Kg EPA 8270 08/31 09/10 MTT Dibenzofuran 0.035 mg/Kg EPA 8270 08/31 09/10 MTT 2,4-Dinitrotoluene 0.177 mg/Kg EPA 8270 08/31 09/10 MTT Diethylphthalate 0.035 П mg/Kg EPA 8270 08/31 09/10 MTT 4-Chlorophenyl-Phenylet 0.035 U mq/Ka EPA 8270 08/31 09/10 Fluorene 0.035 U EPA 8270 mg/Ka 08/31 09/10 MJT 4-Nitroaniline 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT 4,6-Dinitro-2-Methylphe 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT n-Nitrosodiphenylamine 0.035 H mg/Kg EPA 8270 08/31 09/10 MTT 4-Bromophenyl-Phenyleth 0.035 U mq/Ka EPA 8270 08/31 09/10 MTT Hexachlorobenzene 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT Pentachlorophenol 0.176 mg/Kg EPA 8270 08/31 09/10 MTT Phenanthrene 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT Anthracene 0.035 U mq/Kq EPA 8270 08/31 09/10 MTT di-n-Butylphthalate 0.147 mg/Kg EPA 8270 08/31 09/10 MTT Fluoranthene 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT Pyrene 0.184 mg/Kg EPA 8270 08/31 09/10 MTT Butylbenzylphthalate 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT 3,3-Dichlorobenzidine 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT Benzo(a)Anthracene 0.035 П mg/Kg EPA 8270 08/31 09/10 MTT Chrysene 0.035 U 08/31 09/10 mg/Kg EPA 8270 MTT bis(2-Ethylhexyl)Phthal 0.035 U mg/Kg EPA 8270 08/31 09/10 di-n-Octylphthalate 0.035 U mg/Kg 08/31 09/10 EPA 8270 Benzo(b)Fluoranthene 0.035 mg/Kg EPA 8270 08/31 09/10 Benzo(k)Fluoranthene 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT Benzo(a)Pyrene 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT Indeno(1,2,3-cd)Pyrene 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT Dibenz(a,h)Anthracene 0.035 U mg/Kg EPA 8270 08/31 09/10 MTT Benzo(g,h,i)Perylene 0.035 U mg/Ka EPA 8270 08/31 09/10

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than



**§565** Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

emlab Ref.# :93.4506-1 Client Sample ID :LON-EB-02 Matrix :WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS :DEW LINE

Project# PWSID

:LONELY :UA

WORK Order

:70353

Report Completed Collected

:10/12/93

:08/25/93 @ 15:30 hrs. :08/31/93 @ 15:10 hrs.

Received

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA, J.M., AND PETER M.G.

			QC			Allowable	Ext.	Anal	
	Parameter	Results	Qual	Units	Method	Limits	Date	Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Bromobenzene	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Bromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Bromodichloromethane	0.0010	U	mg/L	EPA 8260		09/03		MCM
	Bromoform	0.0010	U	mg/L	EPA 8260		•	09/03	MCM
	Bromomethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	n-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
-	tert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Chlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Chloroethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Chloroform	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Chloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	2-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	4-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Dibromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,2-Dibromoethane	0.0010	Ü	mg/L	EPA 8260			09/03	MCM
	Dibromomethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,2-Dichloroethane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,3-Dichloropropane	0.0010		mg/L	EPA 8260			09/03	MCM
	2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/03	MCM
	1,1-Dichloropropene	0.0010		mg/L	EPA 8260	.*		09/03	MCM
	Ethylbenzene	0.0010		mg/L	EPA 8260	··•		09/03	MCM
	Hexachlorobutadiene	0.0010		mg/L	EPA 8260			09/03	MCM
	Isopropylbenzene	0.0010		mg/L	EPA 8260			09/03	MCM
	p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	MCM



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS 5633 B STRE :93.4506-1 Chemlab Ref.# ANCHORAGE, AK 99518 Client Sample ID :LON-EB-02 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER 09/03 09/03 MCM 0.0010 mq/L **EPA** 8260 Methylene Chloride 09/03 09/03 MCM 0.0010 mg/L **EPA 8260** Napthalene EPA 8260 09/03 09/03 MCM n-Propylbenzene 0.0010 U mg/L 0.0010 U **EPA** 8260 09/03 09/03 MCM mg/L Styrene 09/03 09/03 MCM 0.0010 U EPA 8260 1112-Tetrachloroethane mg/L 09/03 09/03 MCM 0.0010 **EPA** 8260 1122-Tetrachloroethane mg/L 11 09/03 09/03 MCM EPA 8260 Tetrachloroethene 0.0010 11 mg/L **EPA** 8260 09/03 09/03 MCM 0.0010 U mg/L Toluene 1,2,3-Trichlorobenzene 09/03 09/03 MCM 0.0010 mg/L **EPA** 8260 П 09/03 09/03 MCM 1,2,4-Trichlorobenzene 0.0010 U mq/L **EPA** 8260 EPA 8260 09/03 09/03 MCM 0.0010 U mg/L 1,1,1-Trichloroethane EPA 8260 09/03 09/03 MCM 0.0010 1.1.2-Trichloroethane U mq/LEPA 8260 09/03 09/03 MCM 0.0010 U mg/L Trichloroethene 09/03 09/03 0.0010 EPA 8260 MCM Trichlorofluoromethane U ma/L 0.0010 EPA 8260 09/03 09/03 MCM 1,2,3-Trichloropropane 11 mg/L 0.0010 U mg/L EPA 8260 09/03 09/03 MCM 1,2,4-Trimethylbenzene 09/03 09/03 MCM 0.0010 U mg/L EPA 8260 1,3,5-Trimethylbenzene 09/03 09/03 MCM EPA 8260 0.0010 U mg/L Vinyl Chloride EPA 8260 09/03 09/03 MCM p+m-Xylene 0.0010 U mg/L 09/03 09/03 MCM 0.0010 U mq/L EPA 8260 o-Xylene EPA 8270 Semivolatile Organics MTT 09/01 09/04 EPA 8270 0.0102 11 mg/L Phenol 09/01 09/04 0.0102 U EPA 8270 bis(2-Chloroethyl)ether mg/L **EPA** 8270 09/01 09/04 0.0102 U mg/L 2-Chlorophenol EPA 8270 09/01 09/04 MTT 1.3-Dichlorobenzene 0.0102 U mq/L 09/01 09/04 MTT 0.0102 U mg/L EPA 8270 1.4-Dichlorobenzene 09/01 09/04 MTT Benzyl Alcohol 0.0102 U mq/L EPA 8270 09/01 09/04 MTT 1,2-Dichlorobenzene **EPA** 8270 0.0102 U mq/L 09/01 09/04 MTT EPA 8270 2-Methylphenol 0.0102 U ma/L 09/01 09/04 MTT **EPA** 8270 0.0102 U mq/L bis(2-Chloroisopropyl)e 09/01 09/04 MTT EPA 8270 0.0102 11 mq/L 4-Methylphenol **EPA** 8270 09/01 09/04 MTT 0.0102 11 mg/L n-Nitroso-di-n-Propylam EPA 8270 09/01 09/04 MTT 0.0102 U mg/L Hexachloroethane 09/01 09/04 MTT EPA 8270 0.0102 U mq/L Nitrobenzene 09/01 09/04 MTT **EPA** 8270 0.0102 U mg/L Isophorone 09/01 09/04 MTT 0.0102 EPA 8270 2-Nitrophenol mg/L 09/01 09/04 MTT 0.0102 U mg/L **EPA** 8270 2,4-Dimethylphenol 09/01 09/04 MTT **EPA** 8270 0.0102 U mq/L Benzoic Acid 09/01 09/04 MTT **EPA** 8270 0.0102 bis(2-Chloroethoxy)Meth 11 mg/L **EPA** 8270 09/01 09/04 MTT mg/L 0.0102 U 2,4-Dichlorophenol 09/01 09/04 MTT EPA 8270 0.0102 U mg/L 1,2,4-Trichlorobenzene **EPA** 8270 09/01 09/04 MTT 0.0102 U mq/L Naphthalene 09/01 09/04 MTT **EPA** 8270 4-Chloroaniline 0.0102 U mg/L EPA 8270 09/01 09/04 MTT 0.0102 U mg/L Hexachlorobutadiene EPA 8270 09/01 09/04 MTT U mg/L 4-Chloro-3-Methylphenol 0.0102 09/01 09/04 MTT **EPA** 8270 2-Methylnaphthalene 0.0102 U mg/L 09/01 09/04 MTT EPA 8270 Hexachlorocyclopentadie 0.0102 U mg/L 09/01 09/04 MTT EPA 8270 0.0102 U 2.4.6-Trichlorophenol mg/L 09/01 09/04 MTT EPA 8270 U 0.0102 mg/L 2,4,5-Trichlorophenol **EPA** 8270 09/01 09/04 MTT 0.0102 U mg/L 2-Chloronaphthalene



# COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

					<del></del>			
ACE 1908		REP(	ORT of ANA	LYSIS		ì		
Chemlab Ref.# :93.4506-1					$\Delta$	; - / A / ANCH	5633 B ST ORAGE, AK	REET
Client Sample ID :LON-EB-02					( d) Million		EL: (907) 562	
Matrix :WATER				•	j.	F	AX: (907) 561	-5301
2-Nitroaniline	0.0102	U	mg/L	ETDA	8270	00/01	00/04	MTT
Dimethylphthalate	0.0102	Ü			8270		09/04	
Acenaphthylene	0.0102	บ	mg/L		8270		09/04	MTT
2,6-Dinitrotoluene	0.0102	Ü	mg/L		8270		09/04	HTT
3-Nitroaniline	0.0102	U	mg/L				09/04	MTT
Acenaphthene		-	mg/L		8270		09/04	MTT
2,4-Dinitrophenol	0.0102	U	mg/L		8270		09/04	MTT
4-Nitrophenol		U	mg/L		8270		09/04	MTT
Dibenzofuran	0.0102	U	mg/L		8270		09/04	MTT
2,4-Dinitrotoluene	0.0102	U	mg/L		8270		09/04	MTT
Diethylphthalate	0.0102	U	mg/L		8270		09/04	MTT
	0.0102	U	mg/L		8270		09/04	MTT
4-Chlorophenyl-Phenylet Fluorene	0.0102	U	mg/L		8270		09/04	MTT
4-Nitroaniline	0.0102	U	mg/L		8270		09/04	MTT
	0.0102	U	mg/L		8270		09/04	MTT
4,6-Dinitro-2-Methylphe	0.0102	Ü	mg/L		8270		09/04	MTT
n-Nitrosodiphenylamine	0.0102	Ü	mg/L		8270		09/04	MTT
4-Bromophenyl-Phenyleth	0.0102	Ü	mg/L		8270		09/04	MTT
Hexachlorobenzene	0.0102	U	mg/L		8270		09/04	MTT
Pentachlorophenol	0.0102	U	mg/L		8270		09/04	MTT
Phenanthrene	0.0102	Ü	mg/L		8270		09/04	MTT
Anthracene	0.0102	U	mg/L		8270		09/04	MTT
di-n-Butylphthalate	0.0102	Ü	mg/L		8270		09/04	MTT
Fluoranthene	0.0102	Ü	mg/L		8270		09/04	MTT
Pyrene	0.0102	U	mg/L		8270		09/04	MTT
Butylbenzylphthalate	0.0102	U	mg/L		8270		09/04	MTT
3,3-Dichlorobenzidine	0.0102		mg/L		8270(J)-b.		09/04	MTT
Benzo(a)Anthracene	0.0102	U	mg/L		8270		09/04	MTT
Chrysene	0.0102	U	mg/L		8270		09/04	MTT
bis(2-Ethylhexyl)Phthal	0.0102	Ü	mg/L		8270		09/04	MTT
di-n-Octylphthalate	0.0102	Ü	mg/L		8270		09/04	MTT
Benzo(b)Fluoranthene	0.0102	U	mg/L		8270		09/04	MTT
Benzo(k)Fluoranthene	0.0102	U	mg/L		8270		09/04	MTT
Benzo(a)Pyrene	0.0102	U	mg/L		8270		09/04	MTT
Indeno(1,2,3-cd)Pyrene	0.0102	U	mg/L		8270		09/04	MTT
Dibenz(a,h)Anthracene	0.0102	Ü	mg/L		8270		09/04	MTT
Benzo(g,h,i)Perylene	0.0102	U	mg/L	EPA	8270	09/01	09/04	MTT
Total Metals Analysis					_			
ICP Screen, ICF					EPA	n/a		
Aluminum	0.10	U	mg/L		6010		09/14	DFL
Antimony	0.10	Ü	mg/L		6010		09/14	DFL
Arsenic	0.10	บ	mg/L		6010		09/14	DFL
Barium	0.050	บั	mg/L		6010		09/14	DFL
Beryllium	0.050	บ	mg/L		6010		09/14	DFL
Cadmium	0.050	บ	mg/L		6010		09/14	DFL
Calcium	0.20	บ	mg/L		6010		09/14	DFL
Chromium	0.050	บ	mg/L		6010		09/14	DFL
Cobalt	0.10	Ü	mg/L		6010		09/14	DFL
Copper	0.050	Ü	mg/L		6010		09/14	DFL
Iron	0.10	Ü	mg/L		6010		09/14	DFL
Lead	0.10	Ü	mg/L		6010		09/14	DFL
	J.20	-	3/ 🗅	ш <b>л</b>	2010	03/10	07/17	DE L



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STRE :93.4506-1 Chemlab Ref.# ANCHORAGE, AK 99 Client Sample ID :LON-EB-02 TEL: (907) 562-2343 FAX: (907) 561-5301 :WATER Matrix Quelitier Comment 09/10 09/14 DFL 0.20 mg/L EPA 6010 Magnesium 09/10 09/14 DFL **EPA** 6010 0.050 U mg/L Manganese 09/10 09/14 DEL 0.050 **EPA** 6010 Molybdenum U mq/L 09/10 09/14 DFL 0.050 U mg/L EPA 6010 Nickel 09/10 09/21 5.0 U EPA 6010 DFL mg/L Potassium 09/10 09/14 DFL 0.10 U EPA 6010 Selenium mg/L U J mg/L B. 09/10 09/14 DFL 0.050 EPA 6010 Silver 09/10 09/21 DFL Sodium 0.25 U mg/L **EPA** 6010 09/09 09/10 KAW EPA 7841 Thallium 0.0050 U mg/L 09/10 09/14 DFL mg/L **EPA** 6010 Vanadium 0.050 U 09/10 09/14 DFL 0.050 EPA 6010 Zinc U mg/L n/a EPA 9060 TOC, Nonpurgable 09/14 CMR EPA 9060 mg/L 5.0 U ...TOC Range 09/14 CMR 5.0 U mg/L EPA 9060 ...TOC Concentration All charges 1.6 2/22/94

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

emlab Ref.# :93.4425-9 Client Sample ID :LON-EB-03 Matrix :WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By :RAY MORRIS Project Name

:DEW LINE Project# :LONELY PWSID :UA

WORK Order :70211

Report Completed :10/27/93

Collected :08/26/93 @ 18:00 hrs Received :08/29/93 @ 12:45 hrs

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260		00/03	09/03	177.114
Bromobenzene	0.0010	Ū	mg/L	EPA 8260			09/03	KWM
Bromochloromethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromoform	0.0010	U	mg/L	EPA 8260			09/03	KWM KWM
Bromomethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
tert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03		KWM
arbon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/03		KWM
Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Chloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
Chloroform	0.0010	U	mg/L	EPA 8260		09/03		KWM
Chloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
2-Chlorotoluene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2-Dichloroethane	0.0013		mg/L	EPA 8260		09/03		KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260	•	09/03		KWM
Ethylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
p-Isopropyltoluene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM



ENVIRONMENTAL LABORATORY SERVICES

SINCE 1908		אמישט	מסת הל אווי	T.V.C.T.C.				
Chemlab Ref.# :93.4425-9		KEP	DRT of ANA	ALYSIS			5633 B S	TRES
Client Sample ID :LON-EB-03						ANCH	ORAGE, AK	99518
Matrix :WATER						. } F.	EL: (907) 56 AX: (907) 56	32-2343 31-5301
. HAILI							(307) 30	71-5501
Methylene Chloride	0.0010	U	mg/L	EPA 8260		09/03	F0\P0	KWM
Napthalene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
n-Propylbenzene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
Styrene	0.0010	Ü	mg/L	EPA 8260		09/03		KMW
1112-Tetrachloroethane	0.0010	Ü	mg/L	EPA 8260		09/03		
1122-Tetrachloroethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
Tetrachloroethene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
Toluene	0.0010	Ü	mg/L					KWM
1,2,3-Trichlorobenzene	0.0010	Ü		EPA 8260		09/03	•	KWM
1,2,4-Trichlorobenzene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
1,1,1-Trichloroethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
1,1,2-Trichloroethane	0.0010	_	mg/L	EPA 8260		09/03		KWM
Trichloroethene		U	mg/L	EPA 8260		09/03		KWM
	0.0010	U	mg/L	EPA 8260		09/03		KWM
Trichlorofluoromethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
1,2,3-Trichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2,4-Trimethylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,3,5-Trimethylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Vinyl Chloride	0.0010	U	mg/L	EPA 8260		09/03		KWM
p+m-Xylene	0.0010	U	mg/L	EPA 8260		09/03		KWM
o-Xylene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Comivolatile Organies				1.				
Semivolatile Organics Phenol	0.012		/ <del>-</del>	EPA 8270				
	0.012	Ü	mg/L	EPA 8270		09/02		
bis(2-Chloroethyl)ether	0.012	Ü	mg/L	EPA 8270		09/02		
2-Chlorophenol	0.012	U	mg/L	EPA 8270		09/02		MTT
1,3-Dichlorobenzene	0.012	U	mg/L	EPA 8270		09/02		MTT
1,4-Dichlorobenzene	0.012	Ü	mg/L	EPA 8270		09/02		MTT
Benzyl Alcohol	0.012	U	mg/L	EPA 8270		09/02		MTT
1,2-Dichlorobenzene	0.012	U	mg/L	EPA 8270		09/02		MTT
2-Methylphenol	0.012	U	mg/L	EPA 8270		09/02		MTT
bis(2-Chloroisopropyl)e	0.012	U	mg/L	EPA 8270		09/02	•	MTT
4-Methylphenol	0.012	U	mg/L	EPA 8270		09/02		MTT
n-Nitroso-di-n-Propylam	0.012	U	mg/L	EPA 8270		09/02		MTT
Hexachloroethane	0.012	U	mg/L	EPA 8270		09/02		MTT
Nitrobenzene	0.012	U	mg/L	EPA 8270		09/02		MTT
Isophorone	0.012	U	mg/L	EPA 8270		09/02		TTM
2-Nitrophenol	0.012	U	mg/L	EPA 8270 .		09/02		MTT
2,4-Dimethylphenol	0.012	U	mg/L	EPA 8270		09/02		MTT
Benzoic Acid	0.012	U	mg/L	EPA 8270		09/02		MTT
bis(2-Chloroethoxy)Meth	0.012	U	mg/L	EPA 8270		09/02		MTT
2,4-Dichlorophenol	0.012	U	mg/L	EPA 8270		09/02		MTT
1,2,4-Trichlorobenzene	0.012	U	mg/L	EPA 8270		09/02	09/25	MTT
Naphthalene	0.012	U	mg/L	EPA 8270		09/02	09/25	MTT
4-Chloroaniline	0.012	U	mg/L	EPA 8270		09/02		MTT
Hexachlorobutadiene	0.012	Ü	mg/L	EPA 8270		09/02		MTT
4-Chloro-3-Methylphenol	0.012	U	mg/L	EPA 8270		09/02	09/25	MTT
2-Methylnaphthalene	0.012	U	mg/L	EPA 8270	•	09/02	09/25	MTT
Hexachlorocyclopentadie	0.012	U	mg/L	EPA 8270		09/02	09/25	MTT
2,4,6-Trichlorophenol	0.012	U	mg/L	EPA 8270		09/02	09/25	MTT
2,4,5-Trichlorophenol	0.012	U	mg/L	EPA 8270		09/02		MTT
2-Chloronaphthalene	0.012	U	mg/L	EPA 8270		09/02	09/25	
								T



ENVIRONMENTAL LABORATORY SERVICES

25 (40 f ) H H	REI	PORT of A	NALYSIS			
memlab Ref.# :93.4425-9					5633 B S	TREET
Client Sample ID :LON-EB-03					ANCHORAGE, AN	
Matrix :WATER					TEL: (907) 56 FAX: (907) 56	
					(700. (507) 5	31.3301
2-Nitroaniline	0.012 U	mg/L	CD 0270		00 (02 00 (25	
Dimethylphthalate	0.012 U		EPA 8270		09/02 09/25	MTT
Acenaphthylene		3,	EPA 8270		09/02 09/25	MTT
2,6-Dinitrotoluene		5/ -	EPA 8270		09/02 09/25	MTT
	0.012 U	- 3, -	EPA 8270		09/02 09/25	MTT
3-Nitroaniline	0.012 U		EPA 8270		09/02 09/25	MTT
Acenaphthene	0.012 U		EPA 8270		09/02 09/25	MTT
2,4-Dinitrophenol	0.012 U	57	EPA 8270		09/02 09/25	MTT
4-Nitrophenol	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Dibenzofuran	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
2,4-Dinitrotoluene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Diethylphthalate	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
4-Chlorophenyl-Phenylet	0.012 U		EPA 8270		09/02 09/25	MTT
Fluorene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
4-Nitroaniline	0.012 U	mg/L	EPA 8270		09/02 09/25	
4,6-Dinitro-2-Methylphe	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
n-Nitrosodiphenylamine	0.012 U	mg/L	EPA 8270			MTT
4-Bromophenyl-Phenyleth	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Hexachlorobenzene	0.012 U		EPA 8270		09/02 09/25	MTT
Pentachlorophenol	0.012 U	mg/L			09/02 09/25	MTT
Phenanthrene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Anthracene	0.012 U		EPA 8270		09/02 09/25	MTT
di-n-Butylphthalate	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Fluoranthene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Pyrene		mg/L	EPA 8270		09/02 09/25	MTT
Butylbenzylphthalate		mg/L	EPA 8270		09/02 09/25	MTT
3,3-Dichlorobenzidine	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(a)Anthracene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Chrysene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
bis(2-Ethylhexyl)Phthal	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
di-n-Octylphthalate	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(b)Fluoranthene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(k)Fluoranthene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(a)Pyrene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Indeno(1,2,3-cd)Pyrene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Dibenz(a,h)Anthracene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
Benzo(g,h,i)Perylene	0.012 U	mg/L	EPA 8270		09/02 09/25	MTT
<b></b>			•		, ,	
Total Metals Analysis			_			
ICP Screen, ICF			EPA	n/a		
Aluminum	0.10 U	mg/L	EPA 6010	, _	09/07 09/10	DLG
Antimony	0.10 U	mg/L	EPA 6010		09/07 09/10	DLG
Arsenic	0.10 U	mg/L	EPA 6010		09/07 09/10	DLG
Barium	0.050 U	mg/L	EPA 6010		09/07 09/10	DLG
Beryllium	0.050 U	mg/L	EPA 6010		09/07 09/10	DLG
Cadmium	0.050 U	mg/L	EPA 6010		09/07 09/10	
Calcium	0.25	mg/L	EPA 6010		09/07 09/10	DLG
Chromium	0.050 U	mg/L	EPA 6010		09/07 09/10	DLG DLG
Cobalt	0.10 U	mg/L	EPA 6010	-	09/07 09/10	
Copper	0.050 U	mg/L	EPA 6010			DLG
Iron	0.10 U	mg/L	EPA 6010		09/07 09/10	DLG
Lead	0.10 U	mg/L	EPA 6010		09/07 09/10	DLG
		g/ L	m v 0010		09/07 09/10	DLG



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4425-9 Client Sample ID :LON-EB-03 Matrix :WATER	REPORT OF ANALYSIS					ANC	5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301		
Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	0.20 0.050 0.050 0.050 0.10 0.050 0.42 0.0050 0.050	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA EPA EPA EPA EPA	6010 6010 6010 6010 6010 6010 6010 7841 6010 6010	09/07 09/07 09/07 09/07 09/07 09/07 09/06	09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10 09/10	DLG DLG DLG DLG DLG DLG DLG DLG DLG DLG	
TOC, NonpurgableTOC RangeTOC Concentration	5.0 5.0	U U	mg/L mg/L		9060 9060 9060	n/a	09/08 09/08	CMR CMR	

fl chy 2 2/16/94

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

nemlab Ref.# :93.4426-4 Client Sample ID :LON EB 04 Matrix :WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

:ICF KAISER ENGINEERING

Ordered By :RAY MORRIS Project Name : DEW LINE

Project# :LONELY PWSID :UA

WORK Order :70213

Report Completed :11/16/93

Collected :08/27/93 @ 15:00 hrs :08/29/93 @ 12:45 hrs Received

Technical Director: STEPHEN, C. EDE Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

	Parameter	Results	QC Quaì	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Volatile Organics				EPA 8260				
	Benzene	0.0010	Ţ.	mg/L	EPA 8260		09/03	09/03	KWM
	Bromopenzene	0.0010	ij	mg/L	EPA 8260			09/03	KWM
	Bromochloromethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	Bromodichloromethane	0.0010	IJ	mg/L	EPA 8260			09/03	KWM
	Bromoform	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Bromomethane	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	KWM
	n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
	sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
_	tert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
	Carbon Tetrachloride	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	KWM
	Chlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
	Chloroethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
	Chloroform	0.0010	U	mg/L	EPA 8260			09/03	KWM
	Chloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
	2-Chlorotoluene	0.0010	U	mg/L	`EPA 8260			09/03	KWM
	4-Chlorotoluene	0.0010	IJ	mg/L	EPA 8260		09/03	09/03	KWM
	Dibromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
	12Dibromo3Chloropropane	0.0010	IJ	mg/L	EPA 8260			09/03	KWM
	1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
	Dibromomethane	0.0010	IJ	mg/L	EPA 8260			09/03	KWM
	1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
	1,4-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1.1-Dichloroethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
	1,2-Dichloroethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	cis-1,2-Dichloroethene	0.0010	Ŭ	mg/L	EPA 8260		09/03		KWM
	trans1,2-Dichloroethene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	2,2-Dichloropropane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	1,1-Dichloropropene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	Ethylbenzene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Isopropylbenzene	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
_	p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS DCC 5633 B ST Chemlab Ref.# :93,4426-4 ANCHORAGE, AK 99516 Client Sample ID :LON EB 04 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER EPA 8260 09/03 09/03 Methylene Chloride 0.0010 mq/L KWM 0.0010 mq/L EPA 8260 09/03 09/03 KWM Napthalene 0.0010 EPA 8260 09/03 09/03 KWM n-Propylbenzene U mq/L 09/03 09/03 0.0010 EPA 8260 KWM []mg/L Styrene 09/03 09/03 EPA 8260 KWM 1112-Tetrachloroethane 0.0010 U mg/L EPA 8260 09/03 09/03 KWM 1122-Tetrachloroethane 0.0010 U mq/L 09/03 09/03 EPA 8260 KWM Tetrachloroethene 0.0010 U mq/L EPA 8260 09/03 09/03 Toluene 0.0010 Ü KWM mq/L EPA 8260 09/03 09/03 KWM 1.2.3-Trichlorobenzene 0.0010 U mq/L 1,2,4-Trichlorobenzene 0.0010 U mg/L EPA 8260 09/03 09/03 KWM 09/03 09/03 1,1,1-Trichloroethane 0.0010 11 mg/L EPA 8260 KWM 09/03 09/03 EPA 8260 KWM 1.1.2-Trichloroethane 0.0010 U mq/L 09/03 09/03 EPA 8260 Trichloroethene 0.0010 U mg/L KWM 09/03 09/03 EPA 8260 Trichlorofluoromethane 0.0010 mq/L KWM EPA 8260 09/03 09/03 1,2,3-Trichloropropane 0.0010 U mq/L KWM 0.0010 EPA 8260 09/03 09/03 mg/L KWM 1,2,4-Trimethylbenzene U 09/03 09/03 EPA 8260 KWM 1.3.5-Trimethylbenzene 0.0010 IJ mq/L 09/03 09/03 EPA 8260 KWM U mg/L Vinyl Chloride 0.0010 EPA 8260 09/03 09/03 KWM p+m-Xylene 0.0010 U mq/L EPA 8260 09/03 09/03 KWM 0.0010 U mg/L o-Xylene Semivolatile Organics EPA 8270 09/03 09/27 GV 0.026 EPA 8270 Phenol U mg/L 09/03 09/27 0.026 U mg/L **EPA** 8270 V bis(2-Chloroethyl)ether 2-Chlorophenol 0.026 EPA 8270 09/03 09/27 U mq/L 09/03 09/27 **GV** 1,3-Dichlorobenzene 0.026 U mg/L EPA 8270 09/03 09/27 0.026 U EPA 8270 GV mg/L 1,4-Dichlorobenzene 0.026 EPA 8270 09/03 09/27 GV H mg/L Benzyl Alcohol EPA 8270 09/03 09/27 GV 0.026 1,2-Dichlorobenzene U mg/L 09/03 09/27 **GV** 2-Methylphenol 0.026 U mg/LEPA 8270 0.026 EPA 8270 09/03 09/27 **GV** bis(2-Chloroisopropyl)e mq/L 0.026 mq/L EPA 8270 09/03 09/27 GV 4-Methylphenol EPA 8270 09/03 09/27 GV n-Nitroso-di-n-Propylam 0.026 U mg/L 0.026 EPA 8270 09/03 09/27 **GV** Hexachloroethane 11 mq/L 09/03 09/27 0.026 U mg/L EPA 8270 GV Nitrobenzene 09/03 09/27 0.026 U EPA 8270 **GV** mg/L Isophorone 09/03 09/27 EPA 8270 GV 0.026 U mg/L 2-Nitrophenol 09/03 09/27 **GV** 0.026 EPA 8270 2,4-Dimethylphenol  $\square$ mg/L EPA 8270 09/03 09/27 **GV** Benzoic Acid 0.026 U mq/L EPA 8270 09/03 09/27 **GV** bis(2-Chloroethoxy)Meth 0.026 U mg/L 09/03 09/27 GV 0.026 U mg/L EPA 8270 2,4-Dichlorophenol 09/03 09/27 GV 1,2,4-Trichlorobenzene 0.026 IJ mg/L EPA 8270 09/03 09/27 GV EPA 8270 Naphthalene 0.026 U ma/L EPA 8270 09/03 09/27 GV 0.026 IJ mq/L 4-Chloroaniline 0.026 EPA 8270 09/03 09/27 GV U Hexachlorobutadiene mg/L 09/03 09/27 GV 0.026 mg/L EPA 8270 U 4-Chloro-3-Methylphenol EPA 8270 09/03 09/27 GV 0.026 U mg/L 2-Methylnaphthalene EPA 8270 09/03 09/27 GV 0.026 U Hexachlorocyclopentadie mq/L09/03 09/27 GV **EPA** 8270 2.4.6-Trichlorophenol 0.026 U mq/L 09/03 09/27 GV 0.026 U mq/L **EPA** 8270 2,4,5-Trichlorophenol 09/03 09/27 GV 2-Chloronaphthalene 0.026 mg/L EPA 8270



## COMMERCIAL TESTING & ENGINEERING CO. ENVIRONMENTAL LABORATORY SERVICES

SVCE 1908	REPO!	RT of ANA		2200 0 020057			
Memlab Ref:# :93.4426-4			<u>%</u>		56 <b>33 B</b> S ANCHORAGE, AR		
Client Sample ID :LON EB 04					TEL: (907) 5: FAX: (907) 5:		
Matrix :WATER					F. (307) 3	01-5501	
2-Nitroaniline	0.026 U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>	
Dimethylphthalate	0.026 U	mg/L	EPA 8270		09/03 09/27		
Acenaphthylene	0.026 U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>	
2,6-Dinitrotoluene	0.026 U	mg/L	EPA 8270		09/03 09/27		
3-Nitroaniline	0.026 U	mg/L	EPA 8270		09/03 09/27	<b>GV</b>	
Acenaphthene	0.026 U	mg/L	EPA 8270		09/03 09/27		
2,4-Dinitrophenol	0.026 U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>	
4-Nitrophenol	0.026 U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>	
Dibenzofuran	0 <b>.026</b> U	mg/L	EPA 8270		09/03 09 <b>/27</b>		
2,4-Dinitrotoluene	0.026 U	mg/L	EPA 8270		09/03 09/27		
Diethylphthalate	0 <b>.026</b> U	mg/L	EPA 8270		09/03 09/27		
4-Chlorophenyl-Phenylet	0.026 U	mg/L	EPA 8270		09/03 09/27		
Fluorene	0.026 U	mg/L	EPA 8270		09/03 09/27		
4-Nitroaniline	0.026 U	mg/L	EPA 8270		09/03 09/27		
4,6-Dinitro-2-Methylphe	0.026 U	mg/L	EPA 8270		09/03 09/27		
n-Nitrosodiphenylamine	0.026 U	mg/L	EPA 8270		09/03 09/27		
4-Bromophenyl-Phenyleth	0.026 U	mg/L	EPA 8270		09/03 09/27		
Hexachlorobenzene Pentachlorophenol	0.026 U 0.026 U	mg/L	EPA 8270 EPA 8270		09/03 09/27		
Phenanthrene	0.026 U 0.026 U	mg/L mg/L	EPA 8270		09/03 09/27 09/03 09/27		
Anthracene	0.026 U	mg/L	EPA 8270		09/03 09/27		
di-n-Butylphthalate	0.026 U	mg/L	EPA 8270		09/03 09/27		
Fluoranthene	0.026 U	mg/L	EPA 8270		09/03 09/27		
Pyrene	0.026 U	mg/L	EPA 8270		09/03 09/27		
Butylbenzylphthalate	0.026 U	mg/L	EPA 8270		09/03 09/27		
3,3-Dichlorobenzidine	0.026 U	mg/L	EPA 8270		09/03 09/27		
Benzo(a)Anthracene	0.026 U	mg/L	EPA 8270		09/03 09/27		
Chrysene	0.026 U	mg/L	EPA 8270		09/03 09/27		
bis(2-Ethylhexyl)Phthal	0.026 U	mg/L	EPA 8270		09/03 09/27		
di-n-Octylphthalate	0.026 U	mg/L	EPA 8270		09/03 09/27		
Benzo(b)Fluoranthene	0.026 U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>	
Benzo(k)Fluoranthene	0.026 U	mg/L	EPA 8270		09/03 09/27		
Benzo(a)Pyrene	0.026 U	mg/L	EPA 8270		09/03 09/27		
Indeno(1,2,3-cd)Pyrene	0.026 U	mg/L	EPA 8270		09/03 09/27		
Dibenz(a,h)Anthracene	0.026 U	mg/L	EPA 8270		09/03 09/27		
Benzo(g,h,i)Perylene	0 <b>.02</b> 6 U	mg/L	EPA 8270		09/03 09/27	G <b>V</b>	
Total Metals Analysis			-				
ICP Screen, ICF			EPA	n/a			
Aluminum	0.10 U	mg/L	EPA 6010		09/01 09/10		
Antimony	0.10 U	mg/L	EPA 6010		09/01 09/10		
Arsenic	0.10 U	mg/L	EPA 6010		09/01 09/10		
Barium	0.050 U	mg/L	EPA 6010		09/01 09/10		
Beryllium	0.050 U	mg/L	EPA 6010		09/01 09/10		
Cadmium	0.050 U	mg/L	EPA 6010		09/01 09/10		
Calcium	0.20 U	mg/L	EPA 6010		09/01 09/10		
Chromium Cobalt	0.050 U 0.10 U	mg/L	EPA 6010 EPA 6010	:	09/01 09/10 09/01 09/10		
Copper	0.050 U	mg/L mg/L	EPA 6010		09/01 09/10		
Iron	0.12	mg/L	EPA 6010		09/01 09/10		
Lead	0.10 U	mg/L	EPA 6010		09/01 09/10		
	0.20				05,01 05,10	200	





ENVIRONMENTAL LABORATORY SERVICES

S/NGE (308		REP	ORT of ANA					
Chemlab Ref.# :93.4426-4 Client Sample ID :LON EB 04 Matrix :WATER			oni oi iuni		5633 B STREAM ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301			
Magnesium	0.20	U	mg/L	EPA 601	.0	09/01	09/10	DL(
Manganese	0.050	U	mg/L	EPA 601	.0	09/01	09/10	DLC
Molybdenum	0.050	U	mg/L	EPA 601	.0	09/01	09/10	DL(
Nickel	0.050	Ü	mg/L	EPA 601	.0	09/01	09/10	DLC
Potassium	5.0	U	mg/L	EPA 601	.0	09/01	09/10	DLC
Selenium	0.10	U	mg/L	EPA 601	.0	09/01	09/10	DLC
Silver	0.050	Ü	mg/L	EPA 601	.0	09/01	09/10	DLC
Sodium	0.25	IJ	mg/L	EPA 601	.0	09/01	09/10	DLC
Thallium	0.0050	U	mg/L	EPA 784	11	09/06	09/08	BMF
Vanadium	0.050	Ü	mg/L	EPA 601	.0	09/07	09/10	DLC
Zinc	0.050	U	mg/L	EPA 601	.0	09/07	09/10	DLC
TOC, Nonpurgable				EPA 906	50 n/a			
TOC Range	5.0-5.0	U	mg/L	EPA 906	50		09/10	CME
TOC Concentration	5.0	U	mg/L	EPA 906	50		09/10	CMR

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than



**SES** Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

:93.4626-6 Chemlab Ref.# Client Sample ID :LON-EB-05 Matrix

:WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name Ordered By

: ICF KAISER ENGINEERING :RAY MORRIS

Project Name Project#

PWSID

:DEW LINE :LONELY :UA

:70635 WORK Order

Report Completed :10/07/93

Collected Received

:09/04/93 @ 17:15 hrs. :09/07/93 @ 11:00 hrs.

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G.

Parameter	R <b>es</b> ults	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Hydrocarbons EPH	0.200	U	mg/L	3510/3550/8100M		09/08	09/10	DRS
Hydrocarbons VPH	0.020	U	mg/L	EPA 5030/8015M		09/10	09/10	WLS
•								
Volatile Organics				EPA 8260		00.400	00.700	KWM
Benzene	0.0010	Ü	mg/L	EPA 8260		09/08 09/08		KWM
Bromobenzene	0.0010	IJ	mg/L	EPA 8260		•	09/08	KWM KWM
Bromochloromethane	0.0010	U	mg/L	EPA 8260			09/08	KWM
Bromodichloromethane	0.0010	Ü	mg/L	EPA 8260			09/08	KWM
Bromoform	0.0010	Ü	mg/L	EPA 8260 EPA 8260			09/08	KWM
Promomethane	0.0010	U	mg/L	EPA 8260			09/08	KWM
Butylbenzene	0.0010	U	mg/L	EPA 8260 EPA 8260			09/08	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260			09/08	KWM
tert-Butylbenzne	0.0010	U	mg/L	EPA 8260			09/08	KWM
Carbon Tetrachloride	0.0010 0.0010	U U	mg/L mg/L	EPA 8260			09/08	KWM
Chlorobenzene	0.0010	Ŭ	mg/L	EPA 8260			09/08	KWM
Chloroethane	0.0010	IJ	mg/L	EPA 8260			09/08	KWM
Chloroform Chloromethane	0.0010	Ü	mg/L	EPA 8260			09/08	KWM
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/08	KWM
4-Chlorotoluene	0.0010	Ü	mg/L	EPA 8260			09/08	KWM
Dibromochloromethane	0.0010	Ü	mg/L	EPA 8260			09/08	KWM
12Dibromo3Chloropropane	0.0010	Ü	mg/L	EPA 8260			09/08	KWM
1,2-Dibromoethane	0.0010	Ü	mg/L	EPA 8260			09/08	KWM
Dibromomethane	0.0010	Ü	mg/L	EPA 8260		09/08	09/08	KWM
1.2-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260		09/08	09/08	KWM
1,3-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260		09/08	09/08	KWM
1,4-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260			09/08	KWM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260			09/08	KWM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260			09/08	KWM
1,2-Dichloroethane	0.0010		mg/L	EPA 8260			09/08	KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/08	KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/08	KWM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/08	KWM
1,2-Dichloropropane	0.0010		mg/L	EPA 8260	•		09/08	KWM
1,3-Dichloropropane	0.0010		mg/L	EPA 8260	•		09/08	KWM
2,2-Dichloropropane	0.0010		mg/L	EPA 8260			09/08	KWM
1,1-Dichloropropene	0.0010		mg/L	EPA 8260			09/08	KWM
Ethylbenzene	0.0010	U	mg/L	EPA 8260		09/08	09/08	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4626-6 Client Sample ID :LON-EB-05

Matrix :WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

1442									
Hexachlorobutad:	iene	0.0010	U	mg/L		8260	09/08	09/08	KWM
Isopropylbenzene	9	0.0010	U	mg/L	EPA	8260	,	09/08	KWM
p-Isopropyltolue	ene	0.0010	U	mg/L		8260		09 <b>/08</b>	KWM
Methylene Chlor:	ide	0.0010	U	mg/L		8260	-	0 <b>9/08</b>	KWM
Napthalene		0.0010	U	mg/L		8260		0 <b>9/08</b>	KWM
n-Propylbenzene		0.0010	U	mg/L		8260		09/08	KWM
Styrene		0.0010	U	mg/L		8260		0 <b>9/08</b>	KWM
1112-Tetrachlor	oethane	0.0010	U	mg/L		8260		09/08	KWM
1122-Tetrachlor	oethane	0.0010	U	mg/L		8 <b>260</b>		09/08	KWM
Tetrachloroethe	ne	0.0010	Ü	m <b>g/L</b>	EPA	8260	09/08	09/08	KWM
Toluene		0.0010	U	mg/L	EPA	8260	,	0 <b>9/08</b>	KWM
1,2,3-Trichloro	benzene	0.0010	U	mg/L		8260	-	09/08	KWM
1,2,4-Trichloro	benzene	0.0010	U	mg/L	EPA	8 <b>260</b>	09/08	09 <b>/08</b>	KWM
1,1,1-Trichloro	ethane	0.0010	U	mg/L		8260		09/ <b>08</b>	KWM
1,1,2-Trichloro	ethane	0.0010	U	mg/L		82 <b>60</b>		09/08	KWM
Trichloroethene		0.0010	U	mg/L		8260		09/08	KWM
Trichlorofluoro		0.0010	U	mg/L		8260		09 <b>/08</b>	KWM
1,2,3-Trichloro	propane	0.0010	U	mg/L		8260		09/ <b>08</b>	KWM
1,2,4-Trimethyl		0.0010	IJ	m <b>g/L</b>		8260		09/ <b>08</b>	KWM
1,3,5-Trimethyl	benzene	0.0010	U	mg/L		8260		09/08	KWM
Vinyl Chloride		0.0010	U	m <b>g/L</b>		8260		09 <b>/08</b>	KWM
p+m-Xylene		0.0010	U	mg/L		8260		09/08	KWM
o-Xylene		0.0010	U	m <b>g/L</b>	EPA	8260	09/08	09 <b>/08</b>	

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



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ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

emlab Ref.# :93.4626-13 Client Sample ID :LON-EB-08

Matrix :WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name Ordered By

:ICF KAISER ENGINEERING

:RAY MORRIS

Project Name :DEW LINE : LONELY Project# PWSID :UA

WORK Order :70635

Report Completed :10/07/93

Collected :09/05/93 @ 15:30 hrs :09/07/93 @ 11:00 hrs Received

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G. EPH PATTERN IS NOT

CONSISTENT WITH MIDDLE DISTILLATE FUEL.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Hydrocarbons EPH	0.289		mg/L	3510/3550/8100M	(3)-3.1	09/08	09/09	DRS
Hydrocarbons VPH	0.020	U	mg/L	EPA 5030/8015M		09/10		WLS
Volatile Organics	0 0010		- / <del>*</del>	EPA 8260		00.400	00 (00	
Benzene	0.0010	Ü	mg/L	EPA 8260		09/09		KWM
Bromobenzene	0.0010	Ü	mg/L	EPA 8260		09/09		KWM
Bromochloromethane	0.0010	Ŭ	mg/L	EPA 8260			09/09	KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/09	KWM
Bromoform	0.0010	Ü	mg/L	EPA 8260		09/09		KWM
Bromomethane	0.0010		mg/L	EPA 8260		09/09		KWM
n-Butylbenzene	0.0010	Ü	mg/L	EPA 8260		09/09		KWM
sec-Butylbenzene	0.0010	Ü	mg/L	EPA 8260			09/09	KWM
tert-Butylbenzne	0.0010	Ü	mg/L	EPA 8260			09/09	KWM
Carbon Tetrachloride	0.0010		mg/L	EPA 8260			09/09	KWM
Chlorobenzene	0.0010	U	mg/L	EPA 8260			09/09	KWM
Chloroethane	0.0010	Ŭ	mg/L	EPA 8260			09/09	KWM
Chloroform	0.0010	U	mg/L	EPA 8260			09/09	KWM
Chloromethane	0.0010	U	mg/L	EPA 8260			09/09	KWM
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/09	KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260			09/09	KWM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260			09/09	KWM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260	•		09/09	KWM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260	•		09/09	KWM
Dibromomethane	0.0010	U	mg/L	EPA 8260			09/09	KWM
1,2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/09	KWM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/09	KWM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260			09/09	KWM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260			09/09	KWM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/09	09/09	KWM
1,2-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/09	09/09	KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/09	09/09	KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/09	KWH
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260			09/09	KWM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260	:		09/09	KWM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/09	KWM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260			09/09	KWM
1,1-Dichloropropene	0.0010	U	mg/L	EPA 8260		09/09	09/09	KWM



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SSS Member of the SGS Group (Société Générale de Surveillance)



REPORT of ANALYSIS

**ENVIRONMENTAL LABORATORY SERVICES** 

0.0010

0.0010

0.0010

0.0010

0.0010

0.0010

U

U

U

U

U

mg/L

mg/L

mq/L

ma/L

mq/L

mg/L

Chemlab Ref.# :93.4626-13 ANCHORAGE, AK 99518 Client Sample ID :LON-EB-08 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER 09/09 09/09 KWM EPA 8260 Ethylbenzene 0.0010 U mg/L EPA 8260 09/09 09/09 K.M 0.0010 U mg/L Hexachlorobutadiene EPA 8260 09/09 09/09 KWM 0.0010 11 mg/L Isopropylbenzene 0.0010 EPA 8260 09/09 09/09 KWM H mg/L p-Isopropyltoluene EPA 8260 09/09 09/09 KWM 0.0039 Methylene Chloride mg/L09/09 09/09 EPA 8260 KWM Napthalene 0.0010 H mg/L EPA 8260 09/09 09/09 KWM 0.0010 U mg/L n-Propylbenzene 09/09 09/09 **KWM** Styrene 0.0010 mq/L EPA 8260 09/09 09/09 EPA 8260 KWM 1112-Tetrachloroethane 0.0010 U mq/L 09/09 09/09 **EPA** 8260 KWM 1122-Tetrachloroethane 0.0010 П mg/L 09/09 09/09 KWM EPA 8260 Tetrachloroethene 0.0010 U mg/L EPA 8260 09/09 09/09 KWM Toluene 0.0010 U mg/L KWM EPA 8260 09/09 09/**09** 0.0010 U mg/L 1,2,3-Trichlorobenzene 09/09 09/09 KWM EPA 8260 1,2,4-Trichlorobenzene 0.0010 U mg/L 0.0010 U EPA 8260 09/09 09/09 KWM 1,1,1-Trichloroethane mg/L EPA 8260 09/09 09/09 KWM 0.0010 11 1,1,2-Trichloroethane mg/L 09/09 09/09 KWM EPA 8260 0.0010 ĪĪ Trichloroethene mg/L EPA 8260 09/09 09/09 KWM Trichlorofluoromethane 0.0010 H mg/L

**EPA** 8260

EPA 8260

EPA 8260

EPA 8260

EPA 8260

EPA 8260

* See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

1.2.3-Trichloropropane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Vinyl Chloride

p+m-Xylene

o-Xylene

UA = Unavailable

NA = Not Analyzed

09/09 09/09

09/09 09/09

09/09 09/09

09/09 09/09

09/09 09/09

09/09 09/09

KWM

KWM

KWM

KWM

KWM

5633 B STREET

LT = Less Than

GT = Greater Than



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**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

mlab Ref.#

:93.4626-14

ient Sample ID :LON-EB-08 SPIKE

Matrix

:WATER

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :RAY MORRIS :DEW LINE :LONELY

Project# PWSID

:UA

WORK Order Report Completed

Collected

:10/07/93

:70635

:09/05/93

@ 15:30 hrs.

Received

:09/07/93

@ 11:00 hrs.

5633 B STREET

FAX: (907) 561-5301

ANCHORAGE, AK 99518 TEL: (907) 562-2343

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G.

SEE QA/QC PAØKAGE FOR

SAMPLE AND SPIKE AMOUNTS. FOR 8260 SPIKE AND SPIKE DUP, SEE WO#

93.4355-4,5.

Parameter	QC Results Qua		Method	Allowable Limits	Ext. Date		Init
Hydrocarbons EPH Hydrocarbons VPH	10.9 0.495	mg/L mg/L	3510/3550/8100M EPA 5030/8015M		,	09/09 09/10	DRS WLS

See Special Instructions Above

See Sample Remarks Above = Undetected, Reported value is the practical quantification limit.

= Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than



**SES** Member of the SGS Group (Société Générale de Surveillance)



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

Chemlab Ref.# :93.4626-15

Client Sample ID :LON-EB-08 SPIKE DUPLICATE

:ICF KAISER ENGINEERING

Client Name

Project Name

Ordered By

Project#

PWSID

:WATER

:RAY MORRIS

:DEW LINE

:LONELY

:UA

WORK Order :70635

Report Completed :10/07/93

:09/05/93 Collected @ 15:30 hrs. :09/07/93 @ 11:00 hrs. Received

5633 B STREE

TEL: (907) 562-2343 FAX: (907) 561-5301

ANCHORAGE, AK 9951

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND PETER M.G. SEE QA/QC PACKAGE FOR

SAMPLE AND SPIKE AMOUNTS. FOR 8260 SPIKE AND SPIKE DUP, SEE WO#

93.4355-4,5.

Parameter	QC Results Qual Unit	s Method	Allowable Limits	Ext. Anal Date Date	
Hydrocarbons EPH Hydrocarbons VPH	11.6 mg/ 0.504 mg/	3510/3550/8100M EPA 5030/8015M	1	09/08 09/0 09/10 09/1	

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL. (907) 562-2343 FAX: (907) 561-5301

Chemiab Ref.# :93.4357-8 Client Sample ID :LON-TB-01 Matrix :WATER

Client Name :ICF KAISER ENGINEERING

Ordered By :RAY MORRIS Project Name :DEW LINE Project# : LONELY PWSID :UA

WORK Order :70127 Report Completed :10/15/93

Collected :08/24/93 @ 10:00 hrs. :08/26/93 @ 12:00 hrs. Received

Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M. AND M. LEMMA.

Parameter	QC Results Qua		Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics			EPA 8260				
Benzene	0.0010 U	mg/L	EPA 8260		09/02	09/02	MCM
Bromobenzene	0.0010 U	mg/L	EPA 8260			09/02	MCM
Bromochloromethane	0.0010 U	mg/L	EPA 8260			09/02	MCM
Bromodichloromethane	0.0010 U	mg/L	EPA 8260			09/02	MCM
Bromoform	0.0010 U	mg/L	EPA 8260			09/02	MC <b>M</b>
Bromomethane	0.0010 U	mg/L	EPA 8260			09/02	HCM
n-Butylbenzene	0.0010 U	mg/L	EPA 8260			09/02	MCM
sec-Butylbenzene	0.0010 U	mg/L	EPA 8260			09/02	MCM
tert-Butylbenzne	0.0010 U	mg/L	EPA 8260			09/02	MCM
Carbon Tetrachloride	0.0010 U	mg/L	EPA 8260			09/02	MCM
Chlorobenzene	0.0010 U	mg/L	EPA 8260			09/02	MCM
Chloroethane	0.0010 U	mg/L	EPA 8260			09/02	HCM
Chloroform	0.0010 U	mg/L	EPA 8260			09/02	HCM
Chloromethane	0.0010 U	mg/L	EPA 8260			09/02	HCH
2-Chlorotoluene	0.0010 U	mg/L	EPA 8260			09/02	MCM
4-Chlorotoluene	0.0010 U	mg/L	EPA 8260			09/02	HCM
Dibromochloromethane	0.0010 U	mg/L	EPA 8260			09/02	MCM
12Dibromo3Chloropropane	0.0010 U	mg/L	EPA 8260			09/02	HCH HCH
1,2-Dibromoethane	0.0010 U	mg/L	EPA 8260			09/02	HCM
Dibromomethane	0.0010 U	mg/L	EPA 8260			09/02	MCM
1,2-Dichlorobenzene	0.0010 U	mg/L	EPA 8260			09/02	MCM
1,3-Dichlorobenzene	0.0010 U	mg/L	EPA 8260			09/02	MCM
1,4-Dichlorobenzene	0.0010 U	mg/L	EPA 8260		09/02		MCM
Dichlorodifluoromethane	0.0010 U	mg/L	EPA 8260		09/02		MCM
1,1-Dichloroethane	0.0010 U	mg/L	EPA 8260		09/02		MCM
1,2-Dichloroethane	0.0010 U	mg/L	EPA 8260		09/02		MCM
1,1-Dichloroethene	0.0010 U	mg/L	EPA 8260		09/02		MCM
cis-1,2-Dichloroethene	0.0010 U	mg/L	EPA 8260		09/02		MCM
trans1,2-Dichloroethene	0.0010 U	mq/L	EPA 8260		09/02		MC <b>H</b>
1,2-Dichloropropane	0.0010 U	mg/L	EPA 8260		09/02		MCM
1,3-Dichloropropane	0.0010 U	mg/L	EPA 8260		09/02		MCM
2,2-Dichloropropane	0.0010 U	mg/L	EPA 8260		09/02		MCM
1,1-Dichloropropene	0.0010 U	mg/L	EPA 8260	·.	09/02		MCM
Ethylbenzene	0.0010 U	mg/L	EPA 8260		09/02		MCM
Hexachlorobutadiene	0.0010 U	mg/L	EPA 8260		09/02		MCH
Isopropylbenzene	0.0010 U	mg/L	EPA 8260		09/02		MCM
p-Isopropyltoluene	0.0010 U	mg/L	EPA 8260		09/02		MCM
		37 🚨	CA 11 0200	,	0 37 02	0 37 0 2	11011



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343

FAX: (907) 561-5301

Chemlab Ref.# :93.4357-8 Client Sample ID :LON-TB-01

:WATER

Methylene Chloride	0.0010	U	mg/L	EPA 8260	09/02 09/ <b>02</b> MC	M
Napthalene	0.0010	U	mg/L	EPA 8260	09/02 09/02 MC	М
n-Propylbenzene	0.0010	U	mg/L	EPA 8260	09/02 09/ <b>02</b> MC	М
Styrene	0.0010	U	mg/L	EPA 8260	09/02 09/02 MC	
1112-Tetrachloroethane	0.0010	U	mg/L	EPA 8260	09/02 09/02 MC	
1122-Tetrachloroethane	0.0010	U	mq/L	EPA 8260	09/02 09/ <b>02</b> MCI	
Tetrachloroethene	0.0010	U	mq/L	EPA 8260		
Toluene	0.0010	Ü	ma/L	EPA 8260		
1,2,3-Trichlorobenzene	0.0010	Ü	<b>-</b> '.	· · · · ·		
1,2,4-Trichlorobenzene	0.0010	Ü	mg/L	EPA 8260	09/02 09/ <b>02</b> MCI	
1,1,1-Trichloroethane		_	mg/L	EPA 8260	09/02 09/ <b>02 HCI</b>	1
1,1,2-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/02 09/ <b>02 MCI</b>	M
	0.0010	Ü	mg/L	EPA 8260	09/02 09/ <b>02</b> MCI	M
Trichloroethene	0.0010	U	mg/L	EPA 8260	09/02 09/02 MC	1
Trichlorofluoromethane	0.0010	U	mg/L	EPA 8260	09/02 09/02 MC	Ħ
1,2,3-Trichloropropane	0.0010	U	mg/L	EPA 8260	09/02 09/02 HC	-
1,2,4-Trimethylbenzene	0.0010	U	mg/L	EPA 8260	09/02 09/02 MC	
1,3,5-Trimethylbenzene	0.0010	U	mq/L	EPA 8260	09/02 09/02 MC	
Vinyl Chloride	0.0010	U	mq/L	EPA 8260	09/02 09/02 MC	-
p+m-Xylene	0.0010	U	mg/L	EPA 8260	09/02 09/02 MC	
o-Xylene	0.0010	Ū	mg/L	EPA 8260	09/02 09/02 MC	
		_	5/ -	A 0200	02/02 03/02 DU	4

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not AnalyzedLT = Less Than

GT = Greater Than



See Special Instructions Above



**ENVIRONMENTAL LABORATORY SERVICES** 

REPORT of ANALYSIS

Chemlab Ref.# :93.4505-3 Client Sample ID :LON-TB-02 Matrix :WATER

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

:70355 WORK Order Report Completed :09/29/93

:08/25/93 @ 11:00 hrs Collected :08/31/93 @ 15:10 hrs Received

Technical Director: STEPHEN C. EDE

Released By : State C. 9

Client Name

PWSID

Ordered By Project Name

:RAY MORRIS :DEW LINE Project#

:LONELY

:UA

Sample Remarks: SAMPLE COLLECTED BY: M. LEMMA AND Z.M.

:ICF KAISER ENGINEERING

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromobenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromochloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromoform	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromomethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
n-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
sec-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
ert-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Carbon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloroethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloroform	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
2-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Dibromochloromethane	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
12Dibromo3Chloropropane			mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dibromoethane	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
Dibromomethane	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dichlorobenzene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
1,3-Dichlorobenzene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
1,4-Dichlorobenzene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
Dichlorodifluoromethane	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
1,1-Dichloroethane	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dichloroethane	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
1,1-Dichloroethene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
cis-1,2-Dichloroethene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
trans1,2-Dichloroethene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dichloropropane	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
1,3-Dichloropropane	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
2,2-Dichloropropane	0.0010		mg/L	EPA 8260			09/03	KWM
1,1-Dichloropropene	0.0010		mg/L	EPA 8260	•	09/03	09/03	KWM
Ethylbenzene	0.0010		mg/L	EPA 8260			09/03	KWM
Hexachlorobutadiene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
Isopropylbenzene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM
p-Isopropyltoluene	0.0010		mg/L	EPA 8260		09/03	09/03	KWM



o-Xylene

#### COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

0.0010

U

mg/L

**EPA** 8260

REPORT of ANALYSIS MA 5633 B STR Chemlab Ref.# :93.4505-3 ANCHORAGE, AK 99518 Client Sample ID :LON-TB-02 TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER Methylene Chloride 09/03 09/03 0.0010 mg/L **EPA** 8260 KWM Napthalene 0.0010 EPA 8260 09/03 09/03 U mg/L KWM n-Propylbenzene EPA 8260 09/03 09/03 0.0010 U mg/L KWM 09/03 09/03 Styrene 0.0010 U EPA 8260 mq/L KWM 1112-Tetrachloroethane 09/03 09/03 0.0010 U mg/L EPA 8260 KWM 1122-Tetrachloroethane 0.0010 U EPA 8260 09/03 09/03 mq/L KWM Tetrachloroethene 0.0010 U mq/L EPA 8260 09/03 09/03 KWM 0.0010 EPA 8260 09/03 09/03 Toluene mq/L KWM 1,2,3-Trichlorobenzene 0.0010 U **EPA** 8260 09/03 09/03 mg/L KWM 1,2,4-Trichlorobenzene 0.0010 U **EPA** 8260 09/03 09/03 mg/L KWM 1,1,1-Trichloroethane 0.0010 U EPA 8260 09/03 09/03 mg/L KWM 1.1.2-Trichloroethane 0.0010 mq/L EPA 8260 09/03 09/03 KWM Trichloroethene 0.0010 EPA 8260 09/03 09/03 11 mg/L KWM Trichlorofluoromethane 09/03 09/03 0.0010 EPA 8260 KWM U mg/L 1,2,3-Trichloropropane EPA 8260 09/03 09/03 0.0010 U mg/L KWM 1,2,4-Trimethylbenzene **EPA** 8260 09/03 09/03 0.0010 U mg/L KWM 0.0010 EPA 8260 09/03 09/03 1,3,5-Trimethylbenzene U mg/L KWM Vinyl Chloride 0.0010 U **EPA** 8260 09/03 09/03 KWM mq/L 0.0010 EPA 8260 09/03 09/03 p+m-Xylene U mq/L KWM

* See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

09/03 09/03

KWM

NA = Not Analyzed

LT = Less Than GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

hemlab Ref.# :93.4425-8 REPORT of ANALYSIS

5633 B STREET ANCHORAGE. AK 99518 TEL: (907) 562-2343

Client Sample ID :LON-TB-03

FAX: (907) 561-5301

Matrix

:WATER

WORK Order :70211

Client Name Ordered By

:ICF KAISER ENGINEERING :RAY MORRIS

Report Completed :10/27/93

Project Name

:DEW LINE

Project# PWSID

:LONELY :UA

Collected :08/26/93 @ 13:00 hrs Received

:08/29/93 @ 12:45 hrs

Technical Director: STEPHEN Ç. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

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Pa:	rameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Vol	latile Organics				EPA 8260				
Ber	nzene	0.0010	U	mg/L	EPA 8260		00/02	00.400	,
	omobenzene	0.0010	Ū	mg/L	EPA 8260			09/03	KWM
Bro	omochloromethane	0.0010	Ū	mg/L	EPA 8260			09/03 09/03	KWM
Bro	omodichloromethane	0.0010	U	mg/L	EPA 8260			09/03	KWM
	omoform	0.0010	Ū	mg/L	EPA 8260			09/03	KWM
	omomethane	0.0010	Ü	mg/L	EPA 8260			09/03	KWM
n-I	Butylbenzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
sec	-Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
ter	rt-Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03		KWM KWM
Car	bon Tetrachloride	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Lorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
	loroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Loroform	0.0010	U	mg/L	EPA 8260		09/03		KWM
	loromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		
	Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Dib	promochloromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM KWM
120	)ibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03		
1,2	2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03		KWM KWM
	promomethane	0.0010	U	mg/L	EPA 8260		09/03		
1,2	2-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM KWM
1,3	-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,4	-Dichlorobenzene	0.0010	U	mg/L	EPA 8260 .		09/03		KWM
	hlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	-Dichloroethane	0.0010	Ü	mg/L	EPA 8260		09/03		KWM
	-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03		KWM
	-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
Cls	-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
tra	ns1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,2	-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,3	-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	-	KWM
2,2	-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03		KWM
1,1	-Dichloropropene	0.0010	U	mg/L	EPA 8260	.*	09/03		KWH
	ylbenzene	0.0010	U	mg/L	EPA 8260	•	09/03		KWM
нех	achlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03		KWM
150	propylbenzene	0.0010	U	mg/L	EPA 8260		09/03		KWM
b-T	sopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03		KWM
							- 2, 03	-2,03	******



ENVIRONMENTAL LABORATORY SERVICES

SNOE 1923 Chemlab Ref.# :93.4425-8		REP	ORT of ANA	LYSIS		5633 B STREAM ANCHORAGE, AK 99518
Client Sample ID :LON-TB-03 Matrix :WATER						TEL: (907) 562-2343 FAX: (907) 561-5301
Methylene Chloride	0.0010	U	mg/L	EPA	8260	09/03 09/03 KW
Napthalene	0.0010	Ū	mg/L		8260	09/03 09/03 KW
n-Propylbenzene	0.0010	U	mg/L		8260	09/03 09/03 KWI
Styrene	0.0010	U	mg/L		8260	09/03 09/03 KWI
1112-Tetrachloroethane	0.0010	U	mg/L		8260	09/03 09/03 KWI
1122-Tetrachloroethane	0.0010	U	mg/L		8260	09/03 09/03 KWI
Tetrachloroethene	0.0010	U	mg/L		8260	09/03 09/03 KWI
Toluene	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWI
1,2,3-Trichlorobenzene	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWI
1,2,4-Trichlorobenzene	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWI
1,1,1-Trichloroethane	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWF
1,1,2-Trichloroethane	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWF
Trichloroethene	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWF
Trichlorofluoromethane	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWF
1,2,3-Trichloropropane	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWM
1,2,4-Trimethylbenzene	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWM
1,3,5-Trimethylbenzene	0.0010	U	mg/L	EPA	8260	09/03 <b>09/03</b> KWM
Vinyl Chloride	0.0010	U	mg/L	EPA	8260	09/03 <b>09/03 KWM</b>
p+m-Xylene	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWM
o-Xylene	0.0010	U	mg/L	EPA	8260	09/03 09/03 KWM

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable NA = Not Analyzed

LT = Less Than

GT = Greater Than





ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4426-3

Client Sample ID :LON TB 04 Matrix :WATER

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Client Name

PWSID

:ICF KAISER ENGINEERING

Ordered By Project Name Project#

:RAY MORRIS :DEW LINE

:LONELY

:UA

WORK Order :70213

Report Completed :11/16/93 Collected

:08/27/93 @ 10:00 hrs :08/29/93 @ 12:45 hrs Received

Technical Director: STEPHEN, C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY: JERRY M., PETER M.J., M. LEMMA, AND P.Z.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Volatile Organics				EPA 8260				
Benzene	0.0010	U	mg/L	EPA 8260			09/03	KWM
Bromobenzene	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	KWM
Bromochloromethane	0.0010	ij	mg/L	EPA 8260		09/03	09/03	KWM
Bromodichloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromoform	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Bromomethane	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	KWM
n-Butylbenzene	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	KWM
s <b>ec-</b> Butylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
t <b>ert</b> -Butylbenzne	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Carbon Tetrachloride	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	KWM
Chlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloroethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloroform	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Chloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
2-Chlorotoluene	0.0010	U	mg/L	`EPA 8260		09/03	09/03	KWM
4-Chlorotoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Dibromochloromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
12Dibromo3Chloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dibromoethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Dibromomethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dichlorobenzene	0.0010	Ü	mg/L	EPA 8260		09/03	09/03	KWM
1,3-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,4-Dichlorobenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Dichlorodifluoromethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,1-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dichloroethane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,1-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
cis-1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
trans1,2-Dichloroethene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,3-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
2,2-Dichloropropane	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
1,1-Dichloropropene	0.0010	Ü	mg/L	EPA 8260	.*	09/03	09/03	KWM
Ethylbenzene	0.0010	U	mg/L	EPA 8260	•	09/03	09/03	KWM
Hexachlorobutadiene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
Isopropylbenzene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM
p-Isopropyltoluene	0.0010	U	mg/L	EPA 8260		09/03	09/03	KWM



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS &G

5633 B STRE ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

Chemlab Ref.# :93.4426-3 Client Sample ID :LON TB 04

Matrix :WATER

HAILIN . HAILIN						
Methylene Chloride	0.0010	U	mg/L	EPA 8260	09/03 09/03	KWM
Napthalene	0.0010	U	mg/L	EPA 8260	09/03 09/03	KWM.
n-Propylbenzene	0.0010	IJ	mg/L	EPA 8260	09/03 09/03 E	KWM
Styrene	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
1112-Tetrachloroethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM.
1122-Tetrachloroethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
Tetrachloroethene	0.0010	Ü	mg/L	EPA 8260	09/03 09/03 E	KWM
Toluene	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
1,2,3-Trichlorobenzene	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
1,2,4-Trichlorobenzene	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
1,1,1-Trichloroethane	0.0010	U	mg/L	EPA 8260	09/03 09/ <b>03</b> E	KWM
1,1,2-Trichloroethane	0.0010	Ü	mg/L	EPA 8260	09/03 09/ <b>0</b> 3 E	KWM
Trichloroethene	0.0010	U	mg/L	EPA 8260	09/03 09/ <b>0</b> 3 E	KWM
Trichlorofluoromethane	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
1,2,3-Trichloropropane	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
1,2,4-Trimethylbenzene	0.0010	U	mg/L	EPA 8260	09/03 09/ <b>0</b> 3 . i	KWM
1,3,5-Trimethylbenzene	0.0010	U	mg/L	EPA 8260	09/03 09/ <b>0</b> 3 E	KWM
Vinyl Chloride	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
p+m-Xylene	0.0010	U	mg/L	EPA 8260	09/03 09/03 E	KWM
o-Xylene	0.0010	U	mg/L	EPA 8260	09/03 09/03	KWM

See Special Instructions Above

See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



SES Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

Chemlab Ref.# :93.4696-2

Client Sample ID :LON-W01 LONELY/WAINWRIGHT

Matrix

:WATER

Client Name Ordered By

:ICF KAISER ENGINEERING

Project Name Project#

:SHERI K ACE :DEW LINE RI/FS :41096-412-01

PWSID

:UA

WORK Order

:70737

Report Completed :10/21/93

Collected Received

:09/08/93 @ 18:00 hrs :09/09/93 @ 12:00 hrs

**5633 B STREET** 

, - S 7

TEL: (907) 562-2343

FAX: (907) 561-5301

ANCHORAGE, AK 99518

Technical Director: STEPHEN C.

Released By : (

Sample Remarks: SAMPLE COLLECTED BY: R TAUFFE AND R.C.C. LIGHT BROWN FOAMY LIQUID. 8270: FOR EXTRACTION BATCH ASSOCIATED WITH THIS SAMPLE, A POSSIBLE

ERROR DURING EXTRACTION PROCESS RESULTED IN NO RECOVERIES FOR

PHENOLIC SURROGATE AND SPIKE COMPOUNDS.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Da <b>te</b>	Init
Volatile Organics				EPA 8260				
Benzene	0.100	U	mg/L	EPA 8260		09/22	09/22	H <b>CM</b>
Bromobenzene	0.100	U	mg/L	EPA 8260			09/22	HCM
Bromochloromethane	0.100	U	mg/L	EPA 8260			09/22 -	
Bromodichloromethane	0.100	U	mg/L	EPA 8260			09/22	
 Bromoform	0.100	U	mg/L	EPA 8260			09/22	
Bromomethane	0.100	U	mg/L	EPA 8260			09/22_	
n-Butylbenzene	0.100	U	mg/L	EPA 8260			09/22	
 sec-Butylbenzene	0.100	U	mg/L	EPA 8260			09/22	
tert-Butylbenzne	0.100	U	mg/L	EPA 8260			09/22	
Carbon Tetrachloride	0.100	U	mg/L	EPA 8260			09/22	
Chlorobenzene	0.100	U	mg/L	EPA 8260			09/22	MCME
Chloroethane	0.100	U	mg/L	EPA 8260		09/22	09/22	MCM
Chloroform	2.81	D	mg/L	EPA 8260			09/22	
Chloromethane	0.100	Ū	mg/L	EPA 8260			09/22	MCM
2-Chlorotoluene	0.100	Ü	mg/L	EPA 8260			09/22	HCM.
4-Chlorotoluene	0.100	Ü	mg/L	EPA 8260			09/22	
Dibromochloromethane	0.100	Ü	mg/L	EPA 8260				
12Dibromo3Chloropropane	0.100	ŭ	mg/L	EPA 8260			09/22	
1,2-Dibromoethane	0.100	Ü	mg/L	EPA 8260			09/22	MCH.
Dibromomethane	0.100	Ŭ	mg/L	EPA 8260			09/22	
1,2-Dichlorobenzene	0.100	Ü	mg/L	EPA 8260			09/22_	
1,3-Dichlorobenzene	0.100	Ü	mg/L	EPA 8260			09/22	
1,4-Dichlorobenzene	0.100	Ü	mg/L	EPA 8260			09/22_	HC4C
Dichlorodifluoromethane	0.100	Ü	mg/L	EPA 8260			09/22.1	HCM:
1,1-Dichloroethane	0.100	Ü	mg/L	EPA 8260			09/22_	HCH:
1,2-Dichloroethane	0.100	Ü	mg/L	EPA 8260			09/22	HCM:
1,1-Dichloroethene	0.100	Ü	mg/L	EPA 8260			09/2Z=	
cis-1,2-Dichloroethene	0.100	Ü	mg/L	EPA 8260			09/22	
trans1,2-Dichloroethene	0.100	Ü	mg/L	EPA 8260			09/22_	
1,2-Dichloropropane	0.100	Ü	mg/L	EPA 8260	. 6		09/22	HCM?
1,3-Dichloropropane	0.100	Ü	mg/L	EPA 8260			09/22	MCM =
2,2-Dichloropropane	0.100	Ü	mg/L	EPA 8260		09/22		HCM:
1,1-Dichloropropene	0.100	U	mg/L			09/22		MCM
Ethylbenzene	0.100	Ü	mg/L	EPA 8260		09/22		HCM =
	V.200	u	"M' L	EPA 8260		09/22	09/22	MCM.
7								



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 8 STREE Chemlab Ref.# :93.4696-2 ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301 Client Sample ID :LON-W01 LONELY/WAINWRIGHT

Matrix :WATER	CONELLY WAIN	MICT	301			FAX: (907) 56	31-5301
Hexachlorobutadiene	0.100	U	mg/L	EPA 8260		09/22 09/22	HCt
Isopropylbenzene	0.100	Ü	mg/L	EPA 8260		09/22 09/22	MCF
p-Isopropyltoluene	0.100	U	mg/L	EPA 8260		09/22 09/22	MCt.
Methylene Chloride	0.100	U	mg/L	EPA 8260		09/22 09/22	MCK:
Napthalene	0.100	U	mg/L	EPA 8260		09/22 09/22	HCK.
n-Propylbenzene	0.100	U	mg/L	EPA 8260		09/22 09/22	MCK.
Styrene	0.100	U	mg/L	EPA 8260		09/22 09/22	MCK
1112-Tetrachloroethane	0.100	Ü	mg/L	EPA 8260		09/22 09/22	MCE
1122-Tetrachloroethane	0.100	U	mg/L	EPA 8260		09/22 09/22	MCM
Tetrachloroethene	0.100	U	mg/L	EPA 8260		09/22 09/22	MCM
Toluene	0.100	U	mg/L	EPA 8260		09/22 09/22	MCM
1,2,3-Trichlorobenzene	0.100	Ü	mg/L	EPA 8260		09/22 09/22	MCH
1,2,4-Trichlorobenzene	0.100	U	mg/L	EPA 8260		09/22 09/22	MCM
1,1,1-Trichloroethane	0.100	U	സുവ്വ	EPA 8260		09/22 09/22	MCM
1,1,2-Trichloroethane	0.100	U	mg/L	EPA 8260		09/22 09/22	MCM
Trichloroethene	0.100	Ü	mg/L	EPA 8260		09/22 09/22	MCM
Trichlorofluoromethane	0.100	Ü	mg/L	EPA 8260		09/22 09/22	MCM
1,2,3-Trichloropropane	0.100	U	mg/L	EPA 8260		09/22 09/22	MCM
1,2,4-Trimethylbenzene	0.100	U	mg/L	EPA 8260		09/22 09/22	MCM
1,3,5-Trimethylbenzene	0.100	Ŭ	mg/L	EPA 8260		09/22 09/22	MCH
Vinyl Chloride	0.100	Ü	mg/L	EPA 8260		09/22 09/22	MCM
p+m-Xylene o-Xylene	0.100	Ü	mg/L	EPA 8260		09/22 09/22	MCM
0-xytelle	0.100	U	mg/L	EPA 8260		09/22 09/22	
Toxicity Characteristic Characterization, Full Aqueous Phase, Total	100		% Vol	EPA 1311			
Water Content	100		% Vol	Karl Fischer		09/20	DHT
Glycol Content			% Vol	G.C.			
Alcohol Content			% Vol	G.C.			
Oil Phase, Total			% Vol				
Solid Phase, Total			% Vol				
Arsenic	0. <b>0</b> 50	U	mg/L	EPA 7060/7061	5 <b>.0</b>	09/16 09/20	D MAG
Barium	0.50	ŭ	mg/L	EPA 7080/7081 EPA 7080/6010	100.0	09/16 09/17	B <b>MW</b> D <b>lg</b>
Benzene	0.100	Ü	mg/L	EPA 8020/8240	0.5	09/22 09/22	HCM
Cadmium	0.50	Ü	mg/L	EPA 7131/6010	1.0	09/16 09/17	DLG
Carbon Tetrachloride	0.100	Ü	mg/L	EPA 8010/8240	0.5	09/22 09/22	HCM
Chlordane	0.001	ŭ	mg/L	EPA 8080/8270	0.03	09/11 09/12	NRC
Chlorobenzene	0.100	U	mg/L	EPA 8010/8240	100	09/22 09/22	HCM
Chloroform	2.81		mg/L	EPA 8010/8240	6.0	09/22 09/22	MCM
Chromium	0.50	U	mg/L	EPA 6010/7191	5.0	09/16 09/17	DLG
o-Cresol			mg/L	EPA 8040/8270	200		
m-Cresol			mg/L	EPA 8040/8270	200		
p-Cresol			mg/L	EPA 8040/8270	200		
2,4-D	0.006	U	mg/L	EPA 8150	10.0	09/11 09/18	NRC
1,4-Dichlorobenzene	0.100	U	mg/L	EPA 8010/8240	: 7.5	09/22 09/22	MCM
1,2-Dichloroethane	0.100	U	mg/L	EPA 8080/8240	0.5	09/22 09/22	MCM
1,1-Dichloroethylene	0.100	U	mg/L	EPA 8010/8240	0.7	09/22 09/22	MCM
2,4-Dinitrotoluene	0.011	U	mg/L	EPA 8270	0.13	09/11 10/15	G <b>V</b>
Endrin	0.0005	U	mg/L	EPA 8080	0.02	09/11 09/12	





PCBs in Water

----Aroclor

## COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS 5633 B STREET Chemlab Ref.# :93.4696-2 ANCHORAGE, AK 99518 Client Sample ID :LON-W01 LONELY/WAINWRIGHT TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER Heptachlor 0.0005 IJ ma/L EPA 8080 0.008 09/11 09/12 NRC Hexachlorobenzene 0.011 EPA 8270 mq/L 0.13 09/11 10/15 GV Hexachloro-1.3-Butadien 0.011 EPA 8270 mg/L 0.5 09/11 10/15 GV Hexachloroethane 0.011 U mg/L EPA 8270 09/11 10/15 3.0 **GV** Lead 1.0 IJ EPA 7421/6010 mg/L 5.0 09/15 09/17 DLG Lindane 0.0005 H mg/L EPA 8080 0.4 09/11 09/12 NRC Mercury 0.02 U mg/L EPA 7470 0.2 10/01 10/01 MCE Methoxychlor 0.0005 U mg/L EPA 8080 10.0 09/11 09/12 Methyl Ethyl Ketone **NRC** 1.00 U mg/L EPA 8015/8240 200.0 09/22 09/22 MCM Nitrobenzene 0.011 [] mg/L EPA 8270 2.0 09/11 10/15 GV Pentachlorophenol mg/L EPA 8270 100.0 Pyridine 0.011 Ü mq/L EPA 8270 5.0 09/11 10/15 GV Selenium 0.050 U mg/LEPA 7740/7741 09/16 09/20 1.0 BMW Silver 1.0 U mq/L EPA 7760/6010 5.0 09/15 09/16 Tetracnloroethylene TJV 0.100 U mg/L EPA 8010/8240 09/22 09/22 0.7 MCM Toxapnene 0.001 Ü mg/L 09/11 09/12 EPA 8080 0.5 NRC Trichloroethylene 0.100 U mg/L EPA 8010/8240 0.5 09/22 09/22 2,4,5-Trichlorophenol MCM mg/L EPA 8270 400 2,4,6-Trichlorophenol mg/L EPA 8270 2.0 2,4,5-TP(Silvex)0.0006 U mg/L EPA 8150 1.0 09/11 09/18 NRC Vinyl Chloride 0.100 U mg/L EPA 8010/8240 0.2 09/22 09/22 MCM Ignitability, Setaflash GT 200 dea F **EPA** 1020 140 min 09/16 DHT pH, Corrosivity 10.3 EPA 9040 2.0 - 12.509/16 **BJS** Reactivity NONREACT

mg/L

See Special Instructions Above UA = Unavailable

See Sample Remarks Above = Undetected, Reported value is the practical quantification limit. D = Secondary dilution.

0.001 U

NA = Not Analyzed LT = Less Than GT = Greater Than

09/16

09/11 09/12

BJS

NRC



EPA SW846,7.3.2 non react

EPA 8080



ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4696-3

REPORT of ANALYSIS

5633 B ST ANCHORAGE, AK 9 TEL: (907) 562-2343

FAX: (907) 561-5301

Client Sample ID :LON-W01 DUPLICATE

Matrix

:WATER

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :SHERI K ACE

Project#

:DEW LINE RI/FS :41096-412-01

PWSID

:UA

WORK Order

:70737

Report Completed :10/21/93

Collected Received

@ 18:00 hrs. :09/08/93

:09/09/93 @ 12:00 hrs.

Technical Director: STEPHEN C. EDE

Released By : State G

Sample Remarks: SAMPLE COLLECTED BY: R TAUFFE AND R.C.C.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
TCLP Metals				40CFR268				
Arsenic	0.050	U	ma/L	EPA 7060/7061	5.0	09/15	09/20	BMW
Barium	0.50	Ü	mg/L	EPA 7080/6010	100.0		09/17	DLG
Cadmium	0.50	Ü	mq/L	EPA 7131/6010	1.0	09/15	,	DLG
Chromium	0.50	Ü	mg/L	EPA 7191/6010	5.0		09/17	DLG
Lead	1.0	Ü	mg/L	EPA 7421/6010	5.0	09/15	, <del>-</del> -	DLG
Mercury		Ŭ	mq/L	EPA 7470	0.2	0 27 13	0 3/ 1 /	DLG
Selenium	0.050	IJ	mg/L	EPA 7740/7741	1.0	09/15	09/20	BMW
Silver	1.0	Ŭ	mg/L	EPA 7760/6010	5.0	-	09/16	TJV

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed LT = Less Than

GT = Greater Than



SSSS Member of the SGS Group (Société Générale de Surveillance)



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518 TEL: (907) 562-2343 FAX: (907) 561-5301

:93.4696-4 Client Sample ID :LON-W01 SPIKE

:WATER

:ICF KAISER ENGINEERING

Client Name Ordered By Project Name

Chemlab Ref. #

:SHERI K ACE :DEW LINE RI/FS :41096-412-01

Project# PWSID

:UA

WORK Order :70737

Report Completed :10/21/93

Collected :09/08/93

@ 18:00 hrs Received :09/09/93 @ 12:00 hrs EDE/

Technical Director: STEPHEN

Released By :

Sample Remarks: SAMPLE COLLECTED BY:

R TAUFFE AND R.C.C. SEE QC SUMMARY SHEETS FOR SPIKE RECOVERIES AND R.P.D. VALUES. 8270: FOR EXTRACTION BATCH ASSOCIATED WITH THIS. 8240: SPIKE AND SPIKE DUP WERE RUN ON SAMPLE 93.4727-9 FOR THIS BATCH OF RUNS.

_	Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
	Toxicity Characteristic Characterization, Full				EPA 1311				
	Aqueous Phase, TotalWater ContentGlycol ContentAlcohol Content Oil Phase, Total Solid Phase, Total			% Vol % Vol % Vol % Vol % Vol	Karl Fischer G.C. G.C.				
	Arsenic Barium Benzene	1.91 3.1		mg/L mg/L mg/L	EPA 7060/7061 EPA 7080/6010 EPA 8020/8240	5.0 100.0 0.5	09/15 09/15	09/20 09/17	BMW DLG
	Cadmium Carbon Tetrachloride Chlordane	3.3		mg/L mg/L	EPA 7131/6010 EPA 8010/8240	1.0 0.5	09/15	09/17	DLG
	Chlorobenzene Chloroform Chromium	0.001	U	mg/L mg/L mg/L	EPA 8080/8270 EPA 8010/8240 EPA 8010/8240	0.03 100 6.0	09/11	09/12	NRC
	o-Cresol m-Cresol p-Cresol 2,4-D	1.2		mg/L mg/L mg/L	EPA 6010/7191 EPA 8040/8270 EPA 8040/8270 EPA 8040/8270	5.0 200 200 200		09/17	DLG
	1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethylene 2,4-Dinitrotoluene	0.00337		mg/L mg/L mg/L mg/L	EPA 8150 EPA 8010/8240 EPA 8080/8240 EPA 8010/8240	10.0 7.5 0.5 0.7	09/11		NRC
	Endrin Heptachlor Hexachlorobenzene Hexachloro-1,3-Butadien Hexachloroethane Lead Lindane Mercury	0.00752 0.00660 0.011 0.011 0.011 1.3 0.00724	U U U	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	EPA 8270 EPA 8080 EPA 8270 EPA 8270 EPA 8270 EPA 7421/6010 EPA 8080 EPA 7470	0.13 0.02 0.008 0.13 0.5 3.0 5.0 0.4 0.2	09/11 09/11 09/11 09/11 09/11 09/11 09/15	09/12 09/12 10/16 10/16 10/16 09/17	GV NRC NRC GV GV DLG NRC
	Methoxychlor	0.00688		mg/L	EPA 8080	10.0	09/11	09/12	NRC



REPORT of ANALYSIS

ENVIRONMENTAL LABORATORY SERVICES

Chemlab Ref.# :93.4696-4 Client Sample ID :LON-W01 SPIKE

5633 B S ANCHORAGE, AK TEL: (907) 562-2343

Matrix :WATER	1 SPIKE						X: (907) 56	
Methyl Ethyl Ketone Nitrobenzene Pentachlorophenol Pyridine Selenium Silver Tetrachloroethylene	0.011  0.011 2.05 8.9	U U	mg/L mg/L mg/L mg/L mg/L	EPA 8015/8240 EPA 8270 EPA 8270 EPA 8270 EPA 7740/7741 EPA 7760/6010	200.0 2.0 100.0 5.0 1.0 5.0	09/11 09/11 09/15 09/15	10/16 09/20	GV GV BMW TJV
Toxaphene Trichloroethylene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4,5-TP(Silvex) Vinyl Chloride	0.001	U	mg/L mg/L mg/L mg/L mg/L mg/L	EPA 8010/8240 EPA 8080 EPA 8010/8240 EPA 8270 EPA 8270 EPA 8150 EPA 8010/8240	0.7 0.5 0.5 400 2.0 1.0	09/11	·	NRC
Ignitability, Setaflas pH, Corrosivity Reactivity	n		deg F	EPA 1020 EPA 9040 EPA SW846,7.3.2	140 min 2.0 - 12.5 non react			
PCBs in Water	0.001	U	mg/L	EPA 8080		09/11	09/12	NRC

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed,

LT = Less Than GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)

See Special Instructions Above



ENVIRONMENTAL LABORATORY SERVICES

REPORT of ANALYSIS

5633 B STREET ANCHORAGE, AK 99518

Chemlab Ref.#

:93.4696-5

Client Sample ID :LON-W01 SPIKE DUPLICATE

Matrix :WATER

TEL: (907) 562-2343 FAX: (907) 561-5301

hrs

Client Name

:ICF KAISER ENGINEERING

Ordered By Project Name :SHERI K ACE :DEW LINE RI/FS

Project#

:41096-412-01

PWSID :UA WORK Order :70737

Report Completed :10/21/93

Collected :09/08/93 @ 18:00 Received

:09/09/93 @ 12:00 Technical Director: STEPHEN C. EDE

Released By :

Sample Remarks: SAMPLE COLLECTED BY:

R TAUFFE AND RCC. SEE QC SUMMARY SHEETS FOR SPIKE DUPLICATE RECOVERIES AND R.P.D VALUES. 8270: SAMPLE LOST DURING EXTRACTION PROCESS. THE SPIKE AND SPIKE DUPLICATE FOR THIS BATCH OF SAMPLES RUN IN SAMPLE 93.4727-9.

 Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Toxicity Characteristic				EPA 1311				
Characterization, Full Aqueous Phase, TotalWater ContentGlycol ContentAlcohol Content Oil Phase, Total Solid Phase, Total			% Vol % Vol % Vol % Vol % Vol	Karl Fischer G.C. G.C.				
Benzene			mg/L	EPA 8020/8240	0.25			
Carbon Tetrachloride			mg/L	EPA 8010/8240	0.5			
Chlordane	0.001	U	mg/L	EPA 8080/8270	0.03	09/11	09/12	NRC
Chlorobenzene Chloroform			mg/L	EPA 8010/8240	100			
o-Cresol			mg/L	EPA 8010/8240	6.0			
m-Cresol			mg/L	EPA 8040/8270	200			
p-Cresol			mg/L	EPA 8040/8270	200			
2,4-D			mg/L	EPA 8040/8270	200			
1,4-Dichlorobenzene	0.00238		mg/L	EPA 8150	10.0	09/11	09/18	NRC
1,2-Dichloroethane			mg/L	EPA 8010/8240	7.5			
1,1-Dichloroethylene			mg/L	EPA 8080/8240	0.5			
2,4-Dinitrotoluene		•	mg/L	EPA 8010/8240	0.7			
Endrin	0.00783		mg/L	EPA 8270	0.13			
Heptachlor	0.00763		mg/L	EPA 8080	0.02		09/12	NRC
Hexachlorobenzene	0.00077		mg/L mg/L	EPA 8080	0.008	09/11	09/12	NRC
Hexachloro-1,3-Butadien			mg/L	EPA 8270 EPA 8270	0.13			
Hexachloroethane			mg/L	EPA 8270	0.5			
Lindane	0.00775		mg/L	EPA 8080	3.0	00/11	00/40	
Methoxychlor	0.00693		mg/L	EPA 8080	0.4 10.0		09/12	NRC
Methyl Ethyl Ketone			mg/L	EPA 8015/8240	200.0	09/11	09/12	NRC
Nitrobenzene			mg/L	EPA 8270	2.0			
Pentachlorophenol			mg/L	EPA 8270	100.0			
Pyridine			mg/L	EPA 8270	5.0			
Tetrachloroethylene			mg/L	EPA 8010/8240	0.7			
Toxaphene	0.001	U	mg/L	EPA 8080	0.5	09/11	09/12	NRC



-----Aroclor

## COMMERCIAL TESTING & ENGINEERING CO.

ENVIRONMENTAL LABORATORY SERVICES

REPORT OF ANALYSIS 5633 B S Chemlab Ref.# :93.4696-5 ANCHORAGE, AK Client Sample ID :LON-W01 SPIKE DUPLICATE TEL: (907) 562-2343 FAX: (907) 561-5301 Matrix :WATER Trichloroethylene EPA 8010/8240 mg/L 0.5 2,4,5-Trichlorophenol EPA 8270 mg/L 400 2,4,6-Trichlorophenol mg/L EPA 8270 2.0 2,4,5-TP(Silvex)0.00099 mg/L EPA 8150 1.0 09/11 09/18 NRC Vinyl Chloride mg/L EPA 8010/8240 0.2 Ignitability, Setaflash --deg F EPA 1020 140 min pH, Corrosivity EPA 9040 2.0 - 12.5Reactivity EPA SW846,7.3.2 non react PCBs in Water 0.001 U mg/L EPA 8080 09/11 09/12 NRC

See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than



Member of the SGS Group (Société Générale de Surveillance)

LON-AB-01 LON-AB-02 ICF ID 1094 906 F&BI Number Sample Type water water 8/27/93 Date Received 8/27/93 % Dry Weight Sequence Date Leaded Gas JP-4 Lube Oil Diesel Spike Level Unknown Semi-volatile Pentacosane Sequence Date PCB 1221 PCB 1232 PCB 1016 PCB 1242 PCB 1248 PCB 1254 PCB 1260 Spike Level Dibutyl Chlorendate Sequence Date alpha-BHC beta-BHC gamma-BHC delta-BHC Heptachlor Aldrin Heptachlor Epoxide Endosulfan I DDE Dieldrin Endrin Endosulfan II DDD Endrin Aldehyde DDT Endosulfan Sulfate Endrin Ketone Methoxy Chlor Chlordane Dibutyl Chlorendate Spike Level #1&2-08/28/93 #3-08/28/93, #4-08/29/93 Vol Sequence <1 CCI4 < 1 < 1 < 1 **TCA** Benzene < 1 < 1 < 1 < 1 TCE < 1 < 1 Toluene

< 1

< 1

< 2

79

<100 J

< 1

< 1

< 2

119

<50 丁

**PCE** 

BFB

**Xylenes** 

Gasoline Spike level

Ethylbenzene



ICF ID	LON-EB-01	LON-EB-01	LON-EB-02 694 water 8/26/93
F&BI Number	530	534	694 (ST. 49M)
Sample Type	water	water	water by 5,9
Date Received	8/25/93	8/25/93	8/26/93
% Dry Weight			
Sequence Date		#5-08/27/93	#5-08/27/93
Leaded Gas			
JP-4		< 1000	< 200
Lube Oil		< 2000	< 2000
Diesel		< 1000	5200 41000
Spike Level			
Unknown Semi-volatile			
Pentacosane		108	90
Sequence Date		#5-08/27/93	#5-08/27/93
PCB 1221		<2.0	<2
PCB 1232		<2.0	< 2
PCB 1016		<2.0	<2
PCB 1242		< 2.0	< 2
PCB 1248		< 2.0	<2
PCB 1254		< 2.0	< 2
PCB 1260		<2.0	<2
Spike Level		12.0	
Dibutyl Chlorendate		108	90
		.00	#5-08/27/93
Sequence Date			£ 60.2J
alpha-BHC beta-BHC			\$2
			42
gamma-BHC			\$
delta-BHC			\$2
Heptachlor			<\(\lambda\)
Aldrin			2</td
Heptachlor Epoxide			«Z
Endosulfan l			52
DDE			×2
Dieldrin			*2 <2
Endrin			
Endosulfan II			₹2 ₹2 ₹2 \$2
DDD			2
Endrin Aldehyde		-	-1
DDT			×2
Endosulfan Sulfate			\$2 \$ <b>2</b> \
Endrin Ketone			<20 410
Methoxy Chlor			<50 ≥ 10
Chlordane			
Dibutyl Chlorendate			90
Spike Level			
Vol Sequence	#3&4-08/25/93		
CCI4	< 1		
TCA	< 1		
Benzene	<1		
TCE	<1		1
Toluene	<1		
PCE	<1		
Ethylbenzene	< 1		4
Xylenes	<2		•
Gasoline	<50 100J		
Spike level			
BFB	86		

ICF ID	LON-EB-02	LON-EB-03	LON-EB-03
F&BI Number	696	942	944 (0 44)
	water	water	water ht sa
Sample Type		8/27/93	8/27/93
Date Received	8/26/93	6/27/93	0/27/33
% Dry Weight		#F 00/00/00	
Sequence Date		#5-08/28/93	
Leaded Gas			
JP-4		< 200	
Lube Oil		< 2000	
Diesel		5200 - 1000	
Spike Level			
Unknown Semi-volatile			
Pentacosane		60	
Sequence Date		#5-08/28/93	
PCB 1221		< 2	
PCB 1232		< 2	
PCB 1016		< 2	
		<2	
PCB 1242			
PCB 1248		< 2	
PCB 1254		< 2	
PCB 1260		< 2	
Spike Level			
Dibutyl Chlorendate		60	
Sequence Date			
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3&4-08/25/93		#3-08/28/93, #4-08/29/93
CCI4	<1		<1
TCA	<1		<1
	<1		<1
Benzene	<1		· <1
TCE			<1
Toluene	<1		
PCE	<1		<1
Ethylbenzene	<1		<1
Xylenes	<2		<2
Gasoline	<80 100 T		<100ブ
Spike level			
BFB	116		85

ICF ID	LON-EB-04	LON-EB-04	LON-EB-05 1796 Contiled water 9/4/93 by 5,95
F&Bl Number	1098	1100	1796
Sample Type	water	water	water hy 37
Date Received	8/27/93	8/29/93	9/4/93
% Dry Weight			
Sequence Date	#5-08/30/93		#6-09/09/93
Leaded Gas			
JP-4	< 200		<1000
Lube Oil	< 2000		< 2000
Diesel	S200 800T</td <td></td> <td>&lt;1000</td>		<1000
Spike Level			
Unknown Semi-volatile			
Pentacosane	65		80
Sequence Date	#5-08/30/1993		
PCB 1221	< 2		
PCB 1232	< 2		
PCB 1016	< 2		
PCB 1242	< 2		
PCB 1248	< 2		
PCB 1254	< 2		
PCB 1260	<2		
Spike Level	· <del>-</del>		
Dibutyl Chlorendate	65		
Sequence Date	30		
alpha-BHC			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			<b></b>
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level		#1 0 0 00/20/02	
Vol Sequence		#1&2-08/28/93	
CCI4		<1 <1	
TCA			
Benzene		<b>∠2</b> ▼	:
TCE		<1 .2 <b>T</b>	
Toluene		<2 T	
PCE		<1	
Ethylbenzene		<2 T	
Xylenes		<2 <b>T</b>	
Gasoline		<50 <b>T</b>	
Spike level			
BFB		116	

			,	
ICF ID	LON-EB-05	LON-EB-08	الم الم الم الم الم الم الم الم الم الم	
F&BI Number	1798	1774	1776	,
Sample Type	water	water	water 54 4	
Date Received	9/4/93	9/5/93	9/5/93	
% Dry Weight		- 7 - 7	•	
Sequence Date		#6-09/09/93		
Leaded Gas				
JP-4		< 1000		
Lube Oil		< 2000		
Diesel		<1000		
Spike Level				
Unknown Semi-volatile				
Pentacosane		150		
Sequence Date				
PCB 1221				
PCB 1232				
PCB 1016				
PCB 1242				
PCB 1248				
PCB 1254				
PCB 1260				
Spike Level				
Dibutyl Chlorendate				
Sequence Date				
alpha-BHC				
beta-BHC				
gamma-BHC				
delta-BHC				
Heptachlor				
Aldrin				
Heptachlor Epoxide				
Endosulfan I				
DDE				
Dieldrin				
Endrin				
Endosulfan II				
DDD				
Endrin Aldehyde				
DDT				
Endosulfan Sulfate				
Endrin Ketone				
Methoxy Chlor				
Chlordane				
Dibutyl Chlorendate				
Spike Level	<b>***</b> • • • • • • • • • • • • • • • • • •		<b>**10.0.00.10.7.10.0</b>	
Vol Sequence	#1&2-09/07/93		#1&2-09/07/93	
CCI4	<1		<10	
TCA	<1		<10	
Benzene	<1		<1	
TCE	<1		< 10	
Toluene	<1		<1	
PCE	<1		<10	
Ethylbenzene	<1		<1	
Xylenes	<2 <50 T		<2 	
Gasoline	<50√		<50 <b>J</b>	
Spike level	100		70	
BFB	102		76	

ICF ID	(ON -TB-01 ("LON-EB-01" on vial)	LON-TB-02	LON-TB-03
	528	684	916 ( gr ^R LA ^M )
F&BI Number	water	water	water wit 245
Sample Type		8/26/93	8/27/93
Date Received	8/25/93	0/20/33	0/27/33
% Dry Weight			_
Sequence Date			
Leaded Gas			
JP-4			
Lube Oil			
Diesel			
Spike Level			
Unknown Semi-volatile	<b>;</b>		
Pentacosane			
Sequence Date			
PCB 1221			
PCB 1232			
PCB 1016			
PCB 1242			
PCB 1248			
PCB 1254			
PCB 1260			
Spike Level			
Dibutyl Chlorendate			
Sequence Date			
alpha-BHC			
•			
beta-BHC			
gamma-BHC			
delta-BHC			
Heptachlor			
Aldrin			
Heptachlor Epoxide			
Endosulfan l			
DDE			
Dieldrin			
Endrin			
Endosulfan II			
DDD			
Endrin Aldehyde			
DDT			
Endosulfan Sulfate			
Endrin Ketone			
Methoxy Chlor			
Chlordane			
Dibutyl Chlorendate			
Spike Level			
Vol Sequence	#3&4-08/25/93	#3&4-08/25/93	#3-08/28/93, #4-08/29/93
CCI4	<1		<1
TCA	< 1		<1
Benzene	<1	<1	<1
TCE	<1		· <1
Toluene	<1	<1	<1
PCE	<1		<1
Ethylbenzene	<1	<1	<1
Xylenes	<2	< 2	<2
Gasoline	<\$0 100J	\$502100J	<100丁
Spike level	<b>200</b> 133 t	2002/000	- 100
BFB	93	104	81
פום	90	107	0.

ICF ID F&BI Number Sample Type Date Received	LON-TB-04 1092 water 8/27/93	LON GAR-TB 526 water 8/25/93	LON-W01 1906 <i>Cor</i> r water h 9/9/93
% Dry Weight Sequence Date Leaded Gas			#6-09/09/93
JP-4 Lube Oil			<1000 <2000
Diesel Spike Level			<1000
Unknown Semi-volatile Pentacosane			120
Sequence Date PCB 1221			
PCB 1232 PCB 1016			
PCB 1242 PCB 1248			
PCB 1254 PCB 1260			
Spike Level Dibutyl Chlorendate			
Sequence Date alpha-BHC			
beta-BHC gamma-BHC			
delta-BHC Heptachlor			
Aldrin Heptachlor Epoxide			
Endosulfan I DDE			
Dieldrin Endrin			
Endosulfan II DDD			
Endrin Aldehyde DDT			
Endosulfan Sulfate Endrin Ketone			
Methoxy Chlor Chlordane Dibutyl Chlorendate			
Spike Level	#1&2-08/28/93	#3&4-08/25/93	
Vol Sequence CCl4 TCA	#1&2-06/26/93 <1 <1	#3&4-06/25/95 <1 <1	
Benzene TCE	26 T <1	<1 <1	*
Toluene PCE	< 4 T < 1	<1 <1	•
Ethylbenzene	∠3 J	<1	
Xylenes Gasoline	<3√ <50√	<2 <i>≪</i> 50 /00 √	
Spike level BFB	112	91	

# APPENDIX G DATA VALIDATION SUMMARIES

#### ICF KAISER ENGINEERS

ICF KAISER ENGINEERS, INC. 1800 HARRISON STREET P.O. Box 23210 OAKLAND, CALIFORNIA 94612-3430 510/419-6000 FAX 510/419-5355

#### **DATA VALIDATION REPORT**

PROGRAM: LABORATORY: Dewline/Point Lonely RI/FS (ICF Project No. 41096-412-02) Commercial Testing & Engineering Co. (Anchorage, AK)

REVIEWER: ANALYSIS:

Cynthia E. Schlag, ICF Kaiser Engineers, Inc.

Total and Dissolved Metals by USEPA Method 6010

Total and Dissolved Thallium by USEPA Method 7841

MATRIX:

Water

DATE:

May 18, 1994

#### I. INTRODUCTION:

Commercial Testing & Engineering Co. (CT&E) (Anchorage, AK) received one (1) water sample for total and dissolved metals and thallium analyses by USEPA Methods 6010 and 7841 on August 24, 1993. The sample was digested on September 2, 1993 and was analyzed for total and dissolved metals by inductively coupled plasma atomic emission spectroscopy (ICP) and for total and dissolved thallium by atomic absorption furnace technique (GFAA) on September 6, 8, and 17, 1993.

The ICF site identification numbers and corresponding CT&E laboratory sample identification numbers are listed below.

ICF Site No. Lab Sample No.

LON-SS04-SW01 93.4355-03 LON-SS04-SW01 (F) 93.4355-03

Sample number LON-SS04-SW01 (F) was designated as a field-filtered sample and analyzed for dissolved metals and thallium.

The analytical results with qualifications are presented on modified sample data sheets included in the report appendix. Definitions of data qualifiers are provided in Table 1B. This report was prepared according to the USEPA draft document "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis," October 1989, USEPA Method 6010, USEPA Method 7841, and the Project Sampling and Analysis Plan.

#### **II. VALIDITY and COMMENTS:**

#### A. Technical Holding Times:

A.1 Technical holding time QC criteria were met for all project sample analyses.

#### B. <u>Initial Calibration</u>:

B.1 All initial calibration QC criteria were met for project sample analyses and the results are considered acceptable.

#### C. Continuing Calibrations:

- C.1 A percent recovery of 112% was found for potassium in the continuing verification sample (CVS), above the advisory QC limits of 90-110%. It is the opinion of the reviewer that the above noted deviation does not have an adverse effect on data quality.
- C.2 All other continuing calibration QC criteria were met for project sample analyses and the results are considered acceptable.

#### D. Laboratory Blank Analyses:

D.1 No target analytes were detected in the laboratory and calibration blanks (initial and continuing calibration blanks) above the Practical Quantitation Limit (PQL) and the results are considered acceptable.

#### E. Field Blanks:

E.1 No field blank analysis is included with the project documentation.

#### F. Field Duplicate Analysis:

F.1 No field duplicate analyses are included with the project documentation.

#### G. Laboratory Replicate Analysis:

- G.1 Sample number LON-SS04-SW01 was utilized for the laboratory replicate analysis. A Relative Percent Difference (RPD) of 27% was reported for aluminum in the laboratory replicate analysis, exceeding the advisory QC limit of  $\leq$ 25%. Therefore, the detected result for aluminum in the above noted sample is considered as an estimate (J) and usable for limited purposes only (see modified sample data sheet).
- G.2 All other QC criteria were met for the laboratory replicate analysis and the results are considered acceptable.

#### H. ICP Interference Check Sample (ICS) Analyses:

H.1 A percent recovery of 79% was reported for calcium in the ICS analyses performed on September 6, 1993, below the advisory QC limits of 80-120%. It is the opinion of the reviewer that the above noted deviation does not have an adverse effect on data quality.

#### I. Laboratory Control Sample (LCS) Analyses:

1.1 All LCS analyses associated with project samples met applicable QC criteria and the results are considered acceptable.

•

# J. Matrix Spike (MS) Analysis:

J.1 The MS recoveries for the following analytes in the associated samples were outside the advisory QC limits of 75-125%:

MS Sample ID	<u>Analyte</u>	% Recovery	<u>Bias</u>
LON-SS04-SW01	Silver	64	Low
LON-SS04-SW01 (F)	Silver	63	Low
LON-SS04-SW01	Calcium	159	High
LON-SSO4-SW01	Magnesium	6 <b>6</b>	Low
LON-SS04-SW01	Thallium	68	Low

Due to the above noted deviations in MS recoveries, the following results and sample quantitation limits for the above noted analytes are considered as estimates (J) and usable for limited purposes only (see modified sample data sheets):

- The quantitation limit for silver in sample numbers LON-SS04-SW01 and LON-SS04-SW01 (F) may be false negatives.
- The quantitation limit for thallium in sample number LON-SS04-SW01 (F) may be a false negative.
- The detected result for calcium in sample number LON-SS04-SW01 may be biased high.
- The detected result for magnesium in sample number LON-SS04-SW01 may be biased low.
- J.2 Due to above noted deviations in MS recoveries, post-digestion spike recovery analyses were performed on September 6, 1993. The recovery results for all post-digestion spike analyses met applicable QC criteria.
- J.3 All other applicable QC criteria were met for the MS analyses and the results are considered acceptable.

#### K. Quantitation:

K.1 No problems were observed with analyte quantitation in project sample analyses.

# L. Conclusion:

- L.1 Due to deficiencies in matrix spike and laboratory replicate analyses, select data are considered estimated and usable for limited purposes only.
- L.2 All other data are considered valid and usable for all purposes.

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#### DATA VALIDATION REPORT

PROGRAM: Dewline/Point Lonely RI/FS (ICF Project No. 41096-412-02)

LABORATORY: Commercial Testing & Engineering Co. (Anchorage, AK)

REVIEWER: Sharon Lin, ICF Kaiser Engineers, Inc.

ANALYSIS: Total and Dissolved Metals by USEPA Method 6010 &

Total and Dissolved Thallium by USEPA Method 7841

MATRIX: Water

DATE: May 27, 1994

#### I. INTRODUCTION:

Commercial Testing & Engineering Co. (CT&E) (Anchorage, AK) received three (3) water samples for total and dissolved metals analyses by USEPA Methods 6010 and 7841 on August 26 and 29, 1993. The samples were digested on September 2 through 15, 1993 and were analyzed for total and dissolved metals by inductively coupled plasma atomic emission spectroscopy (ICP) and for total and dissolved thallium by atomic absorption furnace technique (GFAA) on September 6 through 17, 1993.

The ICF site identification numbers and corresponding CT&E laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>
LON-EB-01	4357-1
LON-LF11-SW01	4428-1
LON-LF11-SW01 (F)	4428-1
LON-LF07-SW02	4428 - 2
LON-LF07-SW02 (F)	4428-2

Sample number LON-EB-01 was designated as an "equipment blank."

Sample numbers LON-LF11-SW01 (F) and LON-LF07-SW02 (F) were designated as field-filtered samples and analyzed for dissolved metals and thallium.

Sample number LON-EB-01 was re-digested on September 15, 1993 and was re-analyzed for zinc by ICP due to laboratory method blank contamination problems experienced during sample digestion on September 2, 1993.

Sample number LON-LF07-SW02 was misprinted on the sample data sheets provided by the laboratory and this should be noted.

The analytical results with qualifications are presented on modified sample data sheets included in the report appendix. Definitions of data qualifiers are provided in Table 1B. This report was prepared according to the USEPA draft document "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis." October 1989, USEPA Method 6010, USEPA Method 7841, and the Project Sampling and Analysis Plan.

#### II. VALIDITY and COMMENTS:

# A. <u>Technical Holding Times</u>:

A.1 Technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

- B.1 Percent recoveries for silver and sodium in the initial calibration performed on September 6. 1993 were 88% and 86%, respectively, below the advisory QC limits of 90-110%. Therefore, the quantitation limit for silver and the detected result for sodium in sample number LON-EB-01 are considered as estimates (J) and usable for limited purposes only (see modified sample data sheets).
- B.2 Initial calibration QC criteria were met for all other project sample analyses and the results are considered acceptable.

# C. <u>Continuing Calibrations</u>:

C.1 Continuing calibration QC criteria were met for project sample analyses and the results are considered acceptable.

# D. <u>Laboratory Blank Analyses:</u>

D.1 No target analytes were detected in the method blanks above the Practical Quantitation Limit (PQL) and the results are considered acceptable.

# E. Field Blanks:

E.1 Calcium and sodium were detected in equipment blank LON-EB-02 at concentrations of 0.27 and 0.37 mg/L, respectively. However, the reported analytical results for calcium and sodium in the associated samples exceeded the equipment blank results by a factor of greater than ten (10), therefore, no data are qualified.

# F. Field <u>Duplicate Analysis</u>:

F.1 There were no field duplicate analyses included in the project documentation.

G. Laboratory Replicate Analysis:

G.1 A QC limit for precision of  $\leq 25\%$ , as measured by the Relative Percent Difference (RPD) between water samples values, was specified for laboratory replicate comparability.

Sample number LON-EB-01 was utilized for the laboratory replicate analyses.

G.2 There were no laboratory replicate analyses performed associated with sample numbers LON-LF11-SW01 and LON-LF07-SW02.

H. ICP Interference Check Sample (ICS) Analyses:

H.1 All applicable QC criteria were met for the ICS analyses and the results are considered acceptable.

I. Laboratory Control Sample (LCS) Analyses:

I.1 All LCS analyses associated with project samples met applicable QC criteria and the results are considered acceptable.

J. Matrix Spike (MS) Analysis:

J.1 Sample number LON-EB-01 was utilized for matrix spike analyses. The recovery for silver in LON-EB-01 MS was 68%, below the advisory QC criteria of 75-125%. Therefore, the quantitation limit for silver in all associated samples are considered estimates (J) and usable for limited purposes only (see modified sample data sheet). The non-detected results for silver may be a false negatives.

The laboratory inappropriately used an equipment blank for MS/MSD analyses. Therefore, the accuracy and precision for the project samples based on a project sample matrix cannot adequately be determined.

J.2 All other applicable QC criteria were met for the MS analyses and the results are considered acceptable.

K. Quantitation:

K.1 No problems were observed with analyte quantitation in project sample analyses.

L. Conclusion:

L.1 Due to the above noted deficiencies in initial calibration and matrix spike analyses, select data are considered estimates and usable for limited purposes.

L.2 All other data are considered valid and usable for all purposes.

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#### DATA VALIDATION REPORT

PROGRAM: LABORATORY: Dewline/Point Lonely RI/FS (ICF Project No. 41096-412-02) Commercial Testing & Engineering Co. (Anchorage, AK)

REVIEWER:

Cynthia E. Schlag, ICF Kaiser Englneers. Inc.

ANALYSIS:

Volatile Petroleum Hydrocarbons by USEPA Method 8015M

MATRIX:

Water and Soil

DATE:

May 18, 1994

#### I. INTRODUCTION:

Commercial Testing & Engineering Co. (CT&E) (Anchorage. AK) received two (2) water and two (2) soil samples for Volatile Petroleum Hydrocarbons (VPH) analysis by USEPA Method 8015M on September 4 and 5, 1993. The samples were analyzed for VPH by gas chromatography with flame ionization detection (GC/FID) on September 9, and 10, 1993.

The ICF site identification numbers and corresponding CT&E laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS05-2S19-3 LON-SS05-2SD09 LON-EB-05	93.4626-01 93.4626-02 93.4626-06	Soil Soil Water
LON-EB-08	93.4626-13	Water

The following QC sample designations were included in project documentation: sample numbers LON-EB-05 and LON-EB-08 were designated as "equipment blanks."

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan for USEPA Method 8015M. According to the laboratory, all soil samples were extracted in methanol before analysis as required by State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results for project soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared according to the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

- A. Technical Holding Times:
  - A.1 Technical holding time QC criteria were met for all project sample analyses.
- B. Initial Calibration:
  - B.1 All QC criteria for the initial calibration were met and the results are considered acceptable.
- C. Continuing Calibrations:
  - C.1 All QC criteria for the continuing calibration were met and the results are considered acceptable.
- D. Laboratory Blanks:
  - D.1 The target analyte was not detected in the method blanks at a concentration above the Practical Quantitation Limit (PQL) and the results are considered acceptable.
- E. Field Blanks:
  - E.1 The target analyte was not detected in the field blanks at a concentration above the PQL and the results are considered acceptable.
- F. Laboratory Control Sample Analysis:
  - F.1 The laboratory control sample QC criteria were met for all "blank spike" analyses and the results are considered acceptable.
- G. Field Duplicate Analysis:
  - G.1 No field duplicate analysis is included in the project documentation.
- H. Surrogate Recoveries:
  - H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.
- Matrix Spike/Matrix Spike Duplicate Analyses:
  - I.1 The matrix spike (MS) and matrix spike duplicate (MSD) analyses associated with these samples met all applicable QC criteria and the results are considered acceptable.
- J. Internal Standards:
  - J.1 Internal standard areas for all sample analyses were within specified QC criteria and the results are considered acceptable.
- K. Quantitation and Identification:
  - K.1 No problems were observed with sample quantitation and identification in project sample analysis.
- L. Conclusion:
  - L.1 All data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM: LABORATORY: Dewline/Point Lonely RI/FS (ICF Project No.41096-412-02) Commercial Testing & Engineering Co. (Anchorage, AK)

REVIEWER:

Cynthia Schlag, ICF Kaiser Engineers

ANALYSIS:

Volatile Organic Compounds by USEPA Method 8260

MATRIX:

Water and Soil

DATE:

June 1, 1994

# I. INTRODUCTION:

Commercial Testing & Engineering Co. (Anchorage, AK) received twelve (12) soils and eighteen (18) water samples for volatile organic compounds (VOC) analyses by USEPA Method 8260 on August 24. 25. 26. 27. and September 4. 5. 1993. The samples were analyzed for VOCs by gas chromatography/mass spectrometry (GC/MS) on September 2. 3. 5, 8, 9, 13. 14, and 30, 1993.

The ICF site identification numbers and corresponding Commercial Testing & Engineering Co. sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS12-SW01	93.4355-02	Water
LON-SS04-SW01	93.4355-03	Water
LON-EB-01	93.4357-01	Water
LON-SS03-S01	93.4357-04	Soil
LON-SS03-SW01	93.4357-07	Water
LON-TB-01	93,4357-08	Water
LON-ST02-SW01	93.4423-01	Water
LON-SS01-S15	93.4425-04	Soil
LON-LF11-S03	93.4425-05	Soil
LON-ST02-S02	93.4425-06	Soil
LON-LF07-S03	93.4425-07	Soil
LON-TB-03	93.4425-08	Water
LON-EB-03	93.4425-09	Water
LON-SS09-SD03	93.4427-03	Soil
LON-SS09-SW01	93.4427-04	Water
LON-LF11-SW01	93.4428-01	Water
LON-LF07-SW02	93.4428-02	Water
LON-SS13-SD01	93.4429-01	Soil
LON-SS05-SD07	93.4504-10	Soil
LON-SS05-SW07	93.4505-01	Water

LON-SS05-SW08	93.4505-02	Water
LON-TB-02	93.4505-03	Water
LON-EB-02	93.4506-01	Water
LON-BKGD-SW02	93.4506-02	Water
LON-BKGD-S01	93.4506-03	Soil
LON-BKGD-SD02	93.4506-04	Soil
LON-EB-05	93.4626-06	Water
LON-SS09-2S04	93.4626-07	Soil
LON-ST10-2SD09	93.4626-12	Soil
LON-EB-08	93.4626-13	Water

The following QC sample designations were included in project documentation: sample numbers LON-TB-01, LON-TB-02, and LON-TB-03 were designated as "trip blanks:" sample numbers LON-EB-01, LON-EB-02, LON-EB-03, LON-EB-05, and LON-EB-08 were designated as "equipment blanks;" and sample numbers LON-SS05-SW07 and LON-SS05-SW08 were designated as a "field duplicate pair."

Soil sample results and quantitation limits were reported by the laboratory with an adjustment for moisture content.

Laboratory reports for matrix spike (MS) and matrix spike duplicate (MSD) analyses associated with some project samples were not included with the data package. Therefore, the corresponding ICF sample numbers could not be determined and the laboratory sample numbers were referenced in comment K.1 instead.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan for USEPA Method 8260. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets included in the report appendix. Definitions of data qualifiers are provided in Table 1B. This report was prepared according to the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA SW-846 Method 8260, and the Project Sampling and Analysis Plan.

# II. VALIDITY and COMMENTS:

# A. <u>Technical Holding Times</u>:

A.1 Sample numbers LON-SS09-2S04, LON-ST10-2SD09, LON-SS09-SD03, LON-SS01-S15, LON-LF11-S03, LON-ST02-S02, and LON-LF07-S03 exceeded technical holding time criteria of 14 days as follows:

Sample No.	Collection Date	Analysis Date	Days Exceeded
LON-SS09-2S04	09/05/93	09/30/93	11
LON-ST10-2SD09	09/05/93	09/30/93	11
LON-SS09-SD03	08/27/93	09/13/93	2
LON-SS01-S15	08/26/93	09/14/93	5
LON-LF11-S03	08/26/93	09/13/93	4
LON-ST02-S02	08/26/93	09/13/93	4
LON-LF07-S03	08/26/93	09/13/93	4

The quantitation limits and results for the above noted samples are considered as estimates (J) and usable for limited purposes only (see modified sample data sheets). Where results are nondetected, false negatives may exist.

A.2 Technical holding time QC criteria were met for all other project sample analyses.

### B. GC/MS Instrument Performance Check:

B.1 All QC criteria for the bromofluorobenzene (BFB) tunes were met and the results are considered acceptable.

# C. <u>Initial Calibration</u>:

C.1 All QC criteria for the initial calibration were met and the results are considered acceptable.

#### D. <u>Continuing Calibration</u>:

D.1 Percent differences (%Ds) in the continuing calibrations performed on September 13, 1993 exceeded the  $\underline{<+}25\%$  QC validation criteria for several analytes. The detected results and quantitation limits for the analytes listed in Table A are considered estimated (J) and usable for limited purposes only (see modified sample data sheets and Table A).

#### E. Laboratory Blanks:

E.1 No target analytes were detected in the method blanks at concentrations above the Practical Quantitation Limits (PQLs) and the results are considered acceptable.

# F. <u>Surrogate Recoveries</u>:

F.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### G. Field Blanks:

- G.1 1,2-Dichloroethane was detected in sample number LON-EB-01 at a concentration of 0.0039 mg/L and sample number LON-EB-03 at a concentration of 0.0013 mg/L. Due to equipment blank contamination, the result reported for 1,2-dichloroethane in sample number LON-SS03-SW01 is considered nondetected (U) (see modified sample data sheets).
- G.2 No other target analytes were detected in the field blanks at concentrations above the PQLs and the results are considered acceptable.

# H. Laboratory Control Sample Analysis:

H.1 Laboratory control sample QC criteria were met for all "blank spike" analyses and the results are considered acceptable.

# I. <u>Laboratory Replicate Analysis:</u>

I.1 No laboratory replicate analysis was included with the project documentation.

#### J. Field Duplicate Analysis:

J.1 A QC limit of  $\leq$ 20%, as measured by the Relative Percent Difference (RPD) between sample values, was specified for field duplicate comparability.

Sample numbers LON-SS05-SW07 and LON-SS05-SW08 were utilized for the field duplicate analysis. A RPD value of 100% was reported for chloromethane, which exceeds the QC criteria. Therefore, the results reported for chloromethane in sample numbers LON-SS05-SW07 and LON-SS05-SW08 are considered estimated (J) and usable for limited purposes only (see modified sample data sheets).

# K. <u>Matrix Spike/Matrix Spike Duplicate Analysis</u>:

K.1 The recoveries of 1,1-dichloroethene in the MS and MSD analyses of the following samples did not meet the laboratory established QC limits as noted below:

Sample No.	% Recovery	QC Limits
LON-SS03-S01 MS	63	80-120%
LON-SS03-S01 MSD	67	80-120%
LON-BKGD-SD01 MS	63	80-120%
LON-BKDG-SD01 MSD	67	80-120%
93.4354-07 MS	15	80-120%
93.4354-08 MSD	16	80-120%
93.4301-08 MS	16	80-120%
93.4301-09 MSD	16	80-120%
LON-SS09-2S04 MS	19	80-120%
LON-SS09-2S04 MSD	19	80-120%

According to USEPA data validation guidelines, organic data are not qualified based on MS/MSD QC outliers alone. It is the opinion of the reviewer that the low recoveries in these samples are due to sample matrix interferences and the exact affect on the quality of the data is not known.

K.2 All other MS and MSD analyses met applicable QC criteria and the results are considered acceptable.

# L. <u>Internal Standards</u>:

L.1 Internal standard areas for all sample analyses were within specified QC criteria and the results are considered acceptable.

# M. Quantitation and Identification:

M.1 No problems were observed with analyte quantitation and identification in project sample analyses.

# N. Conclusion:

- N.1 Due to field blank contamination, select data are considered non-detected.
- N.2 Due to deficiencies in the continuing calibrations, field duplicate analyses and exceeded technical holding times, select data are considered estimated and usable for limited purposes only.
- N.3 All other data are considered valid and usable for all purposes.

TABLE A CALIBRATIONS OUTSIDE %D CRITERIA			
Date	Compound	%D	Samples
Continuing Calibration - September 13, 1993	dichlorofluoromethane chloromethane 1,1-dichloroethene trichloroethene	30.6 27.8 34.2 26.1	LON-SS09-SD03

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#### **DATA VALIDATION REPORT**

PROGRAM:

Dewline/Point Lonely RI/FS (ICF Project No. 41096-412-02) Commercial Testing & Engineering Co. (Anchorage, AK)

LABORATORY: REVIEWER:

Cynthia Schlag, ICF Kaiser Engineers

ANALYSIS:

Semivolatile Organic Compounds by USEPA Method 8270

MATRIX:

Soil and Water

DATE:

June 3, 1994

#### I. INTRODUCTION:

Commercial Testing & Engineering Co. (Anchorage, AK) received ten (10) soil samples and thirteen (13) water samples for semivolatile organic compound (SVOC) analyses by USEPA Method 8270 on August 24, 25, 26, and 27, 1993. The water samples were extracted on August 30, 31, and September 1, 2, 3, 1993 and analyzed for SVOCs by gas chromatography/mass spectrometry (GC/MS) on September 5, 7, 10, 25, and 27, 1993. The soil samples were extracted on September 7, 8, 9, 10, and 13, 1993 and analyzed for SVOCs by GC/MS on October 6, 7, 8, and 15, 1993.

The ICF site identification numbers and corresponding Commercial Testing & Engineering Co. sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS12-SW01 LON-SS04-SW01 LON-EB-01 LON-SS03-S01 LON-SS03-SW01 LON-ST02-SW01 LON-SS01-S15 LON-LF11-S03 LON-ST02-S02 LON-LF07-S03 LON-EB-03 LON-SS09-SD03 LON-SS09-SW01 LON-LF11-SW01 LON-LF07-SW02	93.4355-02 93.4355-03 93.4357-01 93.4357-04 93.4357-07 93.4423-01 93.4425-04 93.4425-05 93.4425-06 93.4425-07 93.4425-09 93.4427-03 93.4427-04 93.4428-01 93.4428-02	Water Water Water Soil Water Soil Soil Soil Soil Water Soil Water Soil Water Water Water
LON-SS13-SD01 LON-SS05-SD07	93.4429-01 93.4504-10	Soil Soil

LON-SS05-SW07	93.4505-01	Water
LON-SS05-SW08	93.4505-02	Water
LON-EB-02	93.4506-01	Water
LON-BKGD-SW02	93.4506-02	Water
LON-BKGD-S01	93.4506-03	Soil
LON-BKGD-SD02	93.4506-04	Soil

The following QC sample designations were included in project documentation: sample numbers LON-EB-01, LON-EB-02, and LON-EB-03 were designated as "equipment blanks;" sample numbers LON-SS05-SW07 and LON-SS05-SW08 were designated as a "field duplicate pair."

According to the laboratory, sample number LON-LF07-SW02 was not analyzed due to sample loss during extraction.

Soil sample results and quantitation limits were reported by the laboratory with an adjustment for moisture content.

Laboratory reports for matrix spike (MS) and matrix spike duplicate (MSD) analyses associated with some project samples were not included with the data package. Therefore, the corresponding ICF sample numbers could not be determined and the laboratory sample numbers were referenced in comments F.2 and K.1 instead.

The analytical results with qualifications are presented on modified sample data sheets included in the report appendix. Definitions of data qualifiers are provided in Table 1B. This report was prepared according to the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA SW-846 Method 8270, and the Project Sampling and Analysis Plan.

#### II. VALIDITY and COMMENTS:

#### A. <u>Technical Holding Times:</u>

- A.1 Sample number LON-LF11-S03 exceeded the technical extraction holding time of 14 days by 5 days. Therefore, the above noted sample is considered estimated (J) and usable for limited purposes only (see modified sample data sheets).
- A.2 All other technical holding time QC criteria were met for the project sample analyses.

#### B. GC/MS Instrument Performance Check:

B.1 All QC criteria for the decafluorotriphenylphosphine (DFTPP) tunes were met and the results are considered acceptable.

# C. Initial Calibration:

C.1 All QC criteria for the initial calibration were met and the results are considered acceptable.

### D. Continuing Calibration:

D.1 Percent differences (%Ds) in the continuing calibrations exceeded the  $\leq \pm 25\%$  QC validation criteria for several analytes in the continuing calibrations performed on September 3, 4, 5, 6, 10, and October 7, 1993. The detected results and quantitation limits for the analytes listed on Table A are considered estimated (J) and usable for limited purposes only (see modified sample data sheets and Table A).

#### E. Laboratory Blanks:

E.1 The following target analytes were detected in the method blanks listed at concentrations above the Practical Quantitation Limit (PQL):

Date extracted	<u>Analyte</u>	Concentration
09/02/93	bis(2-ethylhexyl)phthalate	0.021 mg/Kg
09/07/93	benzyl alcohol -	0.459 mg/Kg
09/07/93	di-n-butylphthalate	0.282 mg/Kg
09/07/93	bis(2-ethylhexyl)phthalate	0.231 mg/Kg
09/09/93	di-n-butylphthalate	0.310 mg/Kg
09/10/93	di-n-butylphthalate	1.610 mg/Kg
09/13/93	di-n-butylphthalate	0.878 mg/Kg

Due to method blank contamination, the following analytes are considered nondetected (U) (see modified sample data sheets).

- di-n-butylphthalate in sample numbers LON-SS09-SD03, LON-SS13-SD01, LON-ST02-S02, LON-LF07-S03, LON-LF11-S03 and LON-SS03-S01
- benzyl alcohol in sample number LON-SS03-S01
- bis(2-ethylhexyl)phthalate in sample nubmer LON-SS03-S01
- E.2 No other target analytes were detected in the method blanks at concentrations above the PQL and the results are considered acceptable.

#### F. Surrogate Recoveries:

F.1 All surrogate recoveries for sample number 93.4424-03 MSD, LON-BKGD-SD01 MSD, and the laboratory control spike sample extracted on 09/08/93 were below the 10% QC validation criteria. No associated samples were affected, therefore no data are qualified.

F.2 The following percent surrogate recoveries, listed below, for sample numbers LON-LF11-SW01, LON-SS13-SD01, 93.4358-02 MS and method blank 09/02/93 were outside the method QC limits:

Sample No.	<u>Analyte</u>	Recovery	QC criteria
blank 09/02/93	nitrobenzene-d5	34%	35-114%
blank 09/02/93	2-fluorobiphenyl	34%	43-116%
LON-LF11-SW01	nitrobenzene-d5	117%	35-114%
LON-SS13-SD01	phenol-d6	114%	24-113%
LON-SS13-SD01	2-fluorobiphenyl	120%	30-115%
93.4358-02 MS	2-fluorophenol	19%	21-110%
93.4358-02 MS	2-fluorobiphenyl	37%	43-116%
93.4514-04 MSD	2,4,6-tribromophenol	118%	30-115%

Sample data associated with the QC samples noted above were not affected and therefore, no data are qualified. The nondetected results in sample numbers LON-LF11-SW01 and LON-SS13-SD01 were not qualified based on Data Validation Guidelines.

F.3 All other surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### G. Field Blanks:

G.1 No target analytes were detected in the field blanks at concentrations above the PQL and the results are considered acceptable.

# H. <u>Laboratory Control Sample Analysis:</u>

- H.1 All spiked recoveries for the laboratory control spike sample extracted on 09/08/93 were below the 10% QC validation criteria due to possible poor extraction efficiency. According to USEPA guidelines, organic data are not qualified based poor recoveries alone. The affect on the quality of the data is not known.
- H.2 Laboratory control sample QC criteria were met for all other "blank spike" analyses and the results are considered acceptable.

# Laboratory Replicate Analysis:

I.1 No laboratory replicate analysis is included with the project documentation.

# J. Field Duplicate Analysis:

J.1 A QC limit of <20%, as measured by the Relative Percent Difference (RPD) between sample values, was specified for water field duplicate comparability.

Sample numbers LON-SS05-SW07 and LON-SS05-SW08 were utilized for the field duplicate analysis. The results of the field duplicate analysis met all applicable QC criteria and the results are considered acceptable.

TABLE A CALIBRATIONS OUTSIDE %D CRITERIA				
Date Compound %D Samples				
Continuing Calibration - September 3, 1993	pentachlorophenol	33.0	blank(soil) LON-SS01-S15 LON-ST02-S02 LON-LF07-S03	
Continuing Calibration - September 4, 1993	3,3'-dichlorobenzidine indeno(1,2,3-cd)pyrene	36.2 37.5	blank(aq)	
Continuing Calibration - September 5, 1993	3,3'-dichlorobenzidine	26.2	LON-SS05-SW07 LON-SS05-SW08 LON-EB-02 LON-BKGD-SW02	
Continuing Calibration - September 6, 1993	3,3'-dichlorobenzidine di-n-butylphthalate benzo(k)fluoranthene dibenz(a,h)anthracene	29.9 31.6 28.6 26.5	blank(soil)	
Continuing Calibration - September 6, 1993	hexachlorocyclopentadiene 3,3'-dichlorobenzidine	26.7 29.4	blank(aq)	
Continuing Calibration - September 10, 1993	hexachlorocyclopentadiene	36.3	blank(aq) LON-EB-01 LON-SS03-SW01	
Continuing Calibration - October 7, 1993	hexachlorocyclopentadiene	30.3	blank(soil)	

# K. Matrix Spike/Matrix Spike Duplicate Analysis:

K.1 All spike recoveries for QC sample numbers LON-BKGD-SD01 MSD and 93.4424-03 MSD were below the 10%. According the USEPA guidelines, organic data are not qualified based on poor MS/MSD recoveries alone. The affect on the quality of the data is not known.

K.2 The MS/MSD recoveries in sample numbers LON-SS03-S01, 93.4424-02 MS, 93,4397-02 MS, 93.4397-10 MSD, 93.4358-02 MS, and 93.4358-03 MSD did not meet the QC criteria as noted below.

Sample No.	Compound	Recovery	QC Limits
LON-SS03-S01 MS	1,2,4-trichlorobenzene	31%	44-142%
LON-SS03-S01 MS	acenaphthalene	39%	47-145%
LON-SS03-S01 MS	pyrene	47%	<b>52-115%</b>
LON-SS03-S01 MSD	1,2,4-trichlorobenzene	38%	44-142%
93.4424-02 MS	phenol	95%	26-90 %
93.4424-02 MS	4-chloro-3-methylphenol	105%	26-103%
93.4424-02 MS	4-nitrophenol	121%	11-114%
93.4424-02 MS	2,4-dinitrotoluene	103%	28-89 %
93.4424-02 MS	pentachlorophenol	121%	17-109%
93.4424-02 MS	di-n-butylphthalate	248%	1 -118%
93.4358-02 MS	1,2,4-trichlorobenzene	39%	44-142%
93.4358-02 MS	acenaphthalene	45%	47-145%
93.4358-02 MS	pentachlorophenol	12%	14-176%
93.4358-03 MSD	pentachlorophenol	11%	14-176%
93.4397-02 MS	pentachlorophenol	14%	17-109%
93.4397-10 MSD	di-n-butylphthalate	134%	1 -118%

According to USEPA guidelines, organic data are not qualified based on MS/MSD recoveries alone. It is the opinion of the reviewer that the recoveries in these samples are due to sample matrix interferences and the affect on the quality of the data is not known.

K.3 All other MS and MSD analyses met the QC criteria and are considered acceptable.

#### L. Internal Standards:

L.1 Due to a low internal standard (IS) areas in sample number LON-SS03-SW01, the quantitation limits for the associated analytes are considered estimated (J) (see modified sample data sheets).

Listed below are the sample numbers, internal standards, IS area, and the QC limits.

Sample No.	Internal Standard	IS Area	QC Limits
LON-SS03-SW01	acenaphthene-d10	2940374	2995124-11980496
LON-SS03-SW01	phenanthrene-d10	4594636	4929212-19716848
LON-SS03-SW01	chrysene-d12	3679996	3686527-14746108

Where the results are nondetected, false negatives may exist.

L.2 Internal standard areas for all other analyses met applicable QC criteria and the results are considered acceptable.

# M. Quantitation and Identification:

M.1 No problems were observed with analyte quantitation and identification in project sample analyses.

# N. Conclusion:

- N.1 Due to the above noted deficiencies in continuing calibration performance, internal standard response, and an exceeded technical holding time, select data are considered as estimates and usable for limited purposes only.
- N.2 Due to the above noted laboratory blank contamination, select data are considered non-detected.
- N.3 All other data are considered valid and usable for all purposes.

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#### DATA VALIDATION REPORT

PROGRAM: Dewline/Point Lonely RI/FS (ICF Project No. 41096-412-02)

LABORATORY: Commercial Testing & Engineering Co. (Anchorage, AK)

REVIEWER: Sharon Lin, ICF Kaiser Engineers, Inc.

ANALYSIS: Total and Dissolved Metals by USEPA Method 6010 &

Total and Dissolved Thallium by USEPA Method 7841

MATRIX: Soil & Water DATE: May 27, 1994

#### I. INTRODUCTION:

Commercial Testing & Engineering Co. (CT&E) (Anchorage, AK) received two (2) soil samples and two (2) water samples for total and dissolved metals analyses by USEPA Methods 6010 and 7841 on August 31, 1993. The samples were digested on September 9 and 10. 1993 and were analyzed for total and dissolved metals by inductively coupled plasma atomic emission spectroscopy (ICP) and for total and dissolved thallium by atomic absorption furnace technique (GFAA) on September 10 through 14, 1993.

The ICF site identification numbers and corresponding CT&E laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-EB-02	4506-1	Water
LON-BKGD-SW02	4506 - 2	Water
LON-BKGD-SW02 (F)	4506 - 2	Water
LON-BKGD-S01	4506-3	Soil
LON-BKGD-SD02	4506-4	Soil

Sample number LON-EB-02 was designated as an "equipment blank."

Sample number LON-BKGD-SW02 (F) was designated as a field-filtered sample and analyzed for dissolved metals and thallium.

The analytical results with qualifications are presented on modified sample data sheets included in the report appendix. Definitions of data qualifiers are provided in Table 1B. This report was prepared according to the USEPA draft document "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis." October 1989, USEPA Method 6010, USEPA Method 7841, and the Project Sampling and Analysis Plan.

# II. VALIDITY and COMMENTS:

- A. <u>Technical</u> Holding Times:
  - A.l Technical holding time QC criteria were met for all project sample analyses.
- B. <u>Initial Calibration</u>:
  - B.1 Percent recoveries for silver in the initial calibration performed on September 14 and 23, 1993 were 75% and 87%, respectively, below the advisory QC limits of 90-110%. Therefore, the quantitation limits for silver in all project samples are considered as estimates (J) and usable for limited purposes only (see modified sample data sheets).
  - B.2 Initial calibration QC criteria were met for all other project sample analyses and the results are considered acceptable.
- C. <u>Continuing Calibrations</u>:
  - C.1 Continuing calibration QC criteria were met for project sample analyses and the results are considered acceptable.
- D. <u>Laboratory Blank Analyses:</u>
  - D.1 No target analytes were detected in the method blanks above the Practical Quantitation Limit (PQL) and the results are considered acceptable.
- E. Field Blanks:
  - $\rm E.1$  No target analytes were detected above the PQLs in equipment blank LON-EB-02 and the results are considered acceptable.
- F. Field Duplicate Analysis:
  - F.1 There were no field duplicate analyses included in the project documentation.
- G. Laboratory Replicate Analysis:
  - G.1 There were no laboratory replicate analysis performed for project samples.
- H. ICP Interference Check Sample (ICS) Analyses:
  - H.1 All applicable QC criteria were met for the ICS analyses and the results are considered acceptable.

# I. <u>Laboratory Control Sample (LCS) Analyses:</u>

I.1 All LCS analyses associated with project samples met applicable QC criteria and the results are considered acceptable.

#### J. <u>Matrix Spike (MS) Analysis:</u>

- J.1 The recovery for silver in MS sample associated with project sample numbers LON-BKGD-S01 and LON-BKGD-SD02 was 0%, significantly below the advisory QC criteria of 75-125%. Therefore, the quantitation limits for silver in the above noted samples are considered rejected (R) and unusable for any purpose (see modified sample data sheets).
- J.2 The MS recovery for cadmium was 68% in the MS sample associated with sample numbers LON-BKGD-S01 and LON-BKGD-SD02, below the advisory QC criteria of 75-125%. Therefore, the quantitation limits for cadmium in the above noted samples are considered as estimates (J) and usable for limited purposes only (see modified sample data sheets).

The non-detected results for cadmium and selenium in the above noted samples may be false negatives.

- J.3 The MS recovery for silver is 73%, marginally below the advisory QC limits. It is the opinion of the reviewer that the above noted deviation does not have an adverse effect on data quality.
- J.4 Due to the above noted deviations in MS recoveries (J.1-J.3), post-digestion spike recovery analyses were performed on September 14 and 23, 1993. The recovery results for all post-digestion spike analyses met applicable QC criteria.
- J.5 All other applicable QC criteria were met for the MS analyses and the results are considered acceptable.

#### K. Quantitation:

K.1 No problems were observed with analyte quantitation in project sample analyses.

#### L. Conclusion:

- L.1 Due to the above noted deficiencies in matrix spike analyses, select data are considered rejected and unusable for any purpose.
- L.2 Due to the above noted deficiencies in initial calibration performances and matrix spike analyses, select data are considered estimates and usable for limited purposes.
- L.3 All other data are considered valid and usable for all purposes.

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#### DATA VALIDATION REPORT

PROGRAM: Dewline/Point Lonely RI/FS (ICF Project No. 41096-412-02)

LABORATORY: Commercial Testing & Engineering Co. (Anchorage, AK)

REVIEWER: Sharon Lin, ICF Kaiser Engineers, Inc.

ANALYSIS: Total & Dissolved Metals by USEPA Method 6010 &

Total & Dissolved Thallium by USEPA Method 7841

MATRIX: Soil & Water DATE: May 27, 1994

### I. INTRODUCTION:

Commercial Testing & Engineering Co. (CT&E) (Anchorage, AK) received four (4) water samples and one (1) soil sample for total and dissolved metals and thallium analyses by USEPA Methods 6010 and 7841 on August 26 and 27, 1993. The samples were digested on August 30 through September 11. 1993 and were analyzed for total and dissolved metals by inductively coupled plasma atomic emission spectroscopy (ICP) and for thallium by atomic absorption furnace technique (GFAA) on September 1 through September 14, 1993.

The ICF site identification numbers and corresponding CT&E laboratory sample identification numbers are listed below.

ICF Site No.		Lab Sample No.	<u>Matrix</u>
LON-ST02-SW01		4423-1	Water
LON-ST02-SW01	(F)	4423-1	Water
LON-SS09-SD03		4427 - 3	Soil
LON-SS09-SW01		4427-4	Water
LON-SS09-SW01	(F)	4427-4	Water
LON-LF11-SW01		4428-1	Water
LON-LF11-SW01	(F)	4428-1	Water
LON-LF07-SW02		4428-2	Water
LON-LF07-SW02	(F)	4428-2	Water

Sample numbers LON-ST02-SW01 (F), LON-SS09-SW01 (F), LON-LF11-SW01 (F) and LON-LF07-SW02 (F) were designated as field-filtered samples and analyzed for dissolved metals and thallium on September 8, 10 and 14, 1993.

The analytical results with qualifications are presented on modified sample data sheets included in the report appendix. Definitions of data qualifiers are provided in Table 1B. This report was prepared according to the USEPA draft document "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis." October 1989, USEPA Method 6010, USEPA Method 7841, and the Project Sampling and Analysis Plan.

### II. VALIDITY and COMMENTS:

#### A. Technical Holding Times:

A.1 Technical holding time QC criteria were met for all project sample analyses.

# B. <u>Initial Calibration</u>:

B.1 Percent recoveries for silver in the initial calibration performed on September 2 and 14, 1993 were outside the advisory QC limits of 90-110%:

Associated Sample	<u>% Recovery</u>
LON-SS09-SW01	75
LON-SS09-SD03	87

Due to the above noted deviations in initial calibration verification (ICV) standard, the quantitation limits for silver in the above noted samples are considered as estimates (J) and usable for limited purposes only (see modified sample data sheets).

B.2 All other initial calibration QC criteria were met for project sample analyses and the results are considered acceptable.

#### C. <u>Continuing Calibrations</u>:

C.1 All continuing calibration QC criteria were met for project sample analyses and the results are considered acceptable.

#### D. Laboratory Blank Analyses:

- D.1 Zinc was detected in the method blank associated with sample number LON-SS09-SW01, LON-LF11-SW01, LON-LF11-SW01 (F), LON-LF07-SW02, LON-LF07-SW02 (F), LON-ST02-SW01 and LON-ST02-SW01 (F) at a concentration of 1.6 mg/L. It is the opinion of the reviewer that the above noted contamination has no adverse effect on data quality.
- D.2 No other target analytes were detected in the laboratory blanks above the Practical Quantitation Limít (PQL) and the results are considered acceptable.

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#### DATA VALIDATION REPORT

PROGRAM: Dewline/Point Lonely RI/FS (ICF Project No. 41096-412-02)

LABORATORY: Commercial Testing & Engineering Co. (Anchorage, AK)

REVIEWER: Sharon Lin, ICF Kaiser Engineers. Inc.

ANALYSIS: Total Metals by USEPA Method 6010 & Thallium by USEPA Method 7841

MATRIX: Soil & Water DATE: May 27, 1994

#### Ι. INTRODUCTION:

Commercial Testing & Engineering Co. + CT&E) + Anchorage. AK) receivedthree (3) soil samples and one (1) water sample for total metals and challium analyses by USEPA Methods 6010 and 7841 on August 29, 1993. The samples were digested on August 30 through September 7, 1993 and were analyzed for total metals by inductively coupled plasma atomic emission spectroscopy (ICP) and for thallium by atomic absorption furnace technique (GFAA) on September 1 through September 14, 1993.

The ICF site identification numbers and corresponding CT&E laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-LF11-S03	4425-5	Soil
LON-ST02-S02	4425-6	Soil
LON-LF07-S03	4425 - 7	Soil
LON-EB-03	4425-9	Water

Sample number LON-EB-03 was designated as an "equipment blank."

The analytical results with qualifications are presented on modified sample data sheets included in the report appendix. Definitions of data qualifiers are provided in Table 1B. This report was prepared according to the USEPA draft document "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis." October 1989, USEPA Method 6010. USEPA Method 7841, and the Project Sampling and Analysis Plan.

#### II. VALIDITY and COMMENTS:

#### A. <u>Technical Holding Times</u>:

A.1 Technical holding time QC criteria were met for all project sample analyses.

#### B. <u>Initial Calibration</u>:

B.1 Percent recoveries for silver associated with the following samples were outside the advisory QC limits of 90-110%:

Associated Sample	% Recovery
LON-LF11-S03	75
LON-LF07-S03	87

Due to the above noted deviations in initial calibration verification (ICV) standard, the quantitation limits for silver in the above noted samples are considered estimates (J) and usable for limited purposes only (see modified sample data sheets).

B.2 All other initial calibration QC criteria were met for project sample analyses and the results are considered acceptable.

#### C. Continuing Calibrations:

- C.1 A percent recovery of 112% was found for selenium associated with sample number LON-ST02-S02, falling outside the advisory QC limits of 90-110%. It is the opinion of the reviewer that the above noted deviation has no adverse effect on data quality.
- C.2 All other continuing calibration QC criteria were met for project sample analyses and the results are considered acceptable.

### D. <u>Laboratory Blank Analyses:</u>

- D.1 Target analytes calcium and iron were detected in the method blank associated with sample number LON-LF11-S03 at concentrations of 0.28 and 0.11 mg/L, respectively. However, the reported analytical results for calcium and iron in the above associated sample exceeded the laboratory blank results by a factor of greater than ten (10), therefore, data are not qualified.
- D.2 Target analyte zinc was detected in the method blank associated with sample number LON-EB-03 at a concentration of 1.6 mg/L. It is the reviewer's opinion that the above noted laboratory blank contamination has no adverse effect on data quality.
- D.3 No other target analytes were detected in the laboratory and calibration blanks (initial and continuing calibration blanks) above the Practical Quantitation Limit (PQL) and the results are considered acceptable.

#### E. Field Blanks:

- E.1 Calcium and sodium were detected in equipment blank LON-EB-03 at concentrations of 0.25 and 0.42 mg/L, respectively. However, the reported analytical results for calcium and sodium in the associated sample exceeded the equipment blank results by a factor of greater than ten (10), therefore, no data are not qualified.
- E.2 No other target analytes were detected above the PQL in the above noted equipment blank and the results are considered acceptable.

# F. <u>Field Duplicate Analysis:</u>

F.1 There were no field duplicate analyses included in the project documentation.

# G. <u>Laboratory Replicate Analysis</u>:

- G.1 Sample number LON-LF11-S03 was utilized for laboratory replicate analysis. A Relative Percent Difference (RPD) of 61% was reported for chromium in the laboratory replicate analysis, exceeding the advisory QC limit of  $\leq 50\%$ . Therefore, the detected result for chromium in the above noted sample is considered an estimate (J) and usable for limited purposes only (see modified sample data sheet).
- G.2 All other QC criteria were met for the above laboratory replicate analysis and the results are considered acceptable.
- G.3 There were no other laboratory replicate analysis performed for the project samples.

#### H. ICP Interference Check Sample (ICS) Analyses:

H.1 All applicable QC criteria were met for the ICS analyses and the results are considered acceptable.

#### I. Laboratory Control Sample (LCS) Analyses:

I.1 All LCS analyses associated with project samples met applicable QC criteria and the results are considered acceptable.

### J. Matrix Spike (MS) Analysis:

J.1 The MS recovery for silver associated with sample numbers LON-ST02-S02 and LON-LF07-S03 was 0%. Therefore, the quantitation limits for silver in the above noted samples are considered rejected (R) and unusable for any purpose (see modified sample data sheets).

J.2 The MS recoveries for the following sample analytes were outside the advisory QC limits of 75-125%:

Associated Sample	<u>Analyte</u>	<pre>% Recovery</pre>	<u>Bias</u>
LON-LF11-S03	Potassium	54	Low
LON-LF11-S03	Sodium	57	Low
LON-LF11-S03	Antimony	71	Low
LON-EB-03	Sodium	211	High
LON-ST02-S02	Calcium	17 <b>1</b>	High
LON-LF07-S03	Calcium	171	High
LON-ST02-S02	Magnesium	160	High
LON-LF07-S03	Magnesium	160	High

Due to the above noted deviations in MS recoveries, all detected results and sample quantitation limits for the above noted analytes are considered as estimates (J) and usable for limited purposes only (see modified sample data sheets).

The non-detected result for antimony in sample number LON-LF11-S03 may be a false negative.

The detected results for potassium and sodium in sample number LON-LF11-S03 may be biased low.

The detected result for sodium in sample number LON-EB-03 may be biased high.

The detected results for calcium and magnesium sample numbers LON-ST02-S02 and LON-LF07-S03 may be biased high.

- J.3 The MS recoveries for aluminum and iron in the above noted MS analyses were outside the advisory QC limits. However, the sample concentration exceeded the spike concentration by a factor of four or more for the above noted target analytes. Therefore, data are not qualified on the basis of the deviations in MS recoveries.
- J.4 Due to above noted deviations in MS recoveries (see J.1-J.3), post-digestion spike recovery analyses were performed on September 2 through 14, 1993. The recovery results for all post-digestion spike analyses met applicable QC criteria.
- J.5 All other applicable QC criteria were met for the MS analyses and the results are considered acceptable.

#### K. Quantitation:

K.1 No problems were observed with analyte quantitation in project sample analyses.

# L. <u>Conclusion</u>:

- L.l Due to above noted deficiencies in matrix spike analyses, select data are considered rejected and unusable for any purpose.
- L.2 Due to above noted deficiencies in initial calibration, laboratory replicate analysis and matrix spike analyses. select data are considered estimates and usable for limited purposes.
- L.3 All other data are considered valid and usable for all purposes.

# E. Field Blanks:

E.1 There were no field blanks analyses included in the project documentation.

# F. Field Duplicate Analysis:

F.1 There were no field duplicate analyses included in the project documentation.

#### G. Laboratory Replicate Analysis:

- G.1 Sample number LON-ST02-SW01 was utilized for laboratory replicate analysis. All QC criteria were met for the laboratory replicate analyses and the results are considered acceptable.
- G.2 There were no other laboratory replicate analysis performed for the project samples.

## H. ICP Interference Check Sample (ICS) Analyses:

H.1 All applicable QC criteria were met for the ICS analyses and the results are considered acceptable.

### I. Laboratory Control Sample (LCS) Analyses:

I.1 All LCS analyses associated with project samples met applicable QC criteria and the results are considered acceptable.

# J. <u>Matrix Spike (MS) Analysis</u>:

J.1 The MS recoveries associated with the following target analytes were outside the advisory QC limits of 75-125%:

Associated Sample	<u>Analyte</u>	<pre>% Recovery</pre>	<u>Bias</u>
LON-SS09-SD03	Aluminum	341	High
LON-SS09-SD03	Barium	69	Low
LON-SS09-SD03	Calcium	171	High
LON-SS09-SD03	Magnesium	160	High
LON-LF11-SW01 (F)	Magnesium	72	Low
LON-ST02-SW01 (F)	Magnesium	72	Low
LON-LF07-SW02 (F)	Magnesium	. 72	Low
LON-SS09-SD03	Manganese	162	High
LON-LF11-SW01	Sodium	211	High
LON-LF07-SW02	Sodium	211	High
LON-ST02-SW01	Sodium	211	High
LON-SS09-SW01 (F)	Sodium	71	Low
LON-SS09-SW01	Sodium	221	High
LON-SS09-SW01 (F)	Silver	65	Low

Due to the above noted deviations in MS recoveries, the detected results and sample quantitation limit for the above noted analytes are considered as estimates (J) and usable for limited purposes only (see modified sample data sheets).

The non-detected result for silver in sample number LON-SS09-SW01 (F) may be a false negative.

The detected results for magnesium in sample numbers LON-LF11-SW01(F), LON-LF07-SW02 (F), LON-ST02-SW01 (F), barium in sample number LON-SS09-SD03 and sodium in sample number LON-SS09-SW01 (F) may be biased low.

The detected results for sodium in sample numbers LON-LF11-SW01, LON-LF07-SW02, LON-ST02-SW01 and LON-SS09-SW01 may be biased high.

The detected results for aluminum, calcium, magnesium and manganese in sample number LON-SS09-SD03 may be biased high.

- J.2 Due to above noted deviations in MS recoveries, post-digestion spike recovery analyses were performed on September 2, 10 and 14, 1993. The recovery results for all post-digestion spike analyses met applicable QC criteria.
- J.3 All other applicable QC criteria were met for the MS analyses and the results are considered acceptable.

# K. Quantitation:

K.1 No problems were observed with analyte quantitation in project sample analyses.

#### L. Conclusion:

- L.1 Due to above noted deficiencies in initial calibration and matrix spike analyses, select data are considered estimates and usable for limited purposes.
- L.2 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Soil and Water

DATE:

March 10, 1995

# I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 3 water samples and 4 soil samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 416) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 26 and August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-BKGD-SW01	707	Water
LON-BKGD-SW03	688	Water
LON-EB-02	694	Water
LON-BKGD-S01	699	Soil
LON-BKGD-SD02	700	Soil
LON-SS05-SD03	702	Soil
LON-SS05-SD08	704	Soil

The following sample designations were included in project documentation: sample numbers LON-BKGD-SWO1 and LON-BKGD-SWO3 were designated as field duplicate samples, and sample number LON-EB-02 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for project water samples (200 ppb) were lower than those specified in the Project Sampling and Analysis Plan (500 ppb). The correct practical quantitation limits (PQLs) when employing the lowest usable calibration point (50 ppm) should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

# II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.2% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 31.2% exceeds the recommended QC criteria of 20.0%. Therefore, the detected results for diesel in all the water samples are qualified "J" as estimated and usable for limited purposes.

B.2 The laboratory attempted to perform a 6 point initial calibration curve on GC Instrument ICF6 on August 21, 1993. The range of the initial calibration was from 50 ppm to 10,000 ppm. The 500 ppm and the 200 ppm standards were not used due to autosampler injection errors. A percent relative standard deviation (%RSD) of 48.3% was calculated using calibration factors determined from the initial calibration. A %RSD of 48.3% exceeds the recommended QC criteria of 20.0%. Since the initial calibration was established with only a 4 point calibration curve, and the %RSD exceeds the recommended criteria, the detected results for diesel in all the soil samples are qualified "J" as estimated and usable for limited purposes.

C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. <u>Laboratory Blanks:</u>

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. <u>Instrument Blanks:</u>

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 Diesel was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

G. Field Duplicate Analyses:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field duplicate comparability.
- G.2 Sample numbers LON-BKGD-SWO1 and LON-BKGD-SWO3 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- I.1 Sample LON-SS05-S01 which is not part of this project sample set, but is from the Point Lonely site, was analyzed as the soil MS/MSD for chain of custody 416.
- 1.2 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. System Performance:

No problems with system performance were observed for all project samples.

K. Quantitation and Identification:

- K.1 Diesel was detected in sample number LON-SS05-SD03 at a concentration of 600 ppm.
- K.2 Diesel was detected in sample number LON-SS05-SD08 at a concentration of 90 ppm. It is the opinion of the reviewer that the diesel is mixed with an unknown hydrocarbon, therefore, the result is qualified "J" as estimated and usable for limited purposes.
- K.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

- K.4 The laboratory reported incorrect PQLs (200 ppb) for diesel in all project water samples. The lowest calibration standard that was usable was the 50 ppm, therefore, the PQLs should have been reported as 1000 ppb. The PQLs have been corrected on the data summary form by the reviewer.
- K.5 No other problems were observed with compound quantitation and identification.

# L. <u>Conclusion:</u>

- L.1 Diesel was detected in sample number LON-SS05-SD03 at a concentration of 600 ppm.
- L.2 Sample number LON-SS05-SD08 contained diesel at a concentration of 90 ppm. The result was estimated by the reviewer. Due to hydrocarbon contamination present in the sample along with the diesel, the result was qualified "J" as estimated and usable for limited purposes.
- L.3 The PQLs for the three water samples have been changed to 1000 ppb on the data summary form by the reviewer.
- L.4 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY/ DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Pesticides by USEPA Method 8080

MATRIX: DATE: Water and Soil April 20, 1995

# I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 3 water samples and 2 soil samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 416) for pesticide analysis by the pesticide organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for pesticides by USEPA Method 8080 on August 26, 1993.

The ICF site identification number and corresponding FBI laboratory sample identification number is listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-BKGD-SW03	688	Water
LON-EB-02	694	Water
LON-BKGD-S01	699	Soil
LON-BKGD-SD02	700	Soil
LON-BKGD-SW01	707	Water

The following sample designations were included in project documentation: sample numbers LON-BKGD-SWO1 and LON-BKGD-SWO3 were designated as field duplicates, and sample number LON-EB-02 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This

report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. Initial Calibration:

B.1 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.01 ppm to 1.0 ppm. The percent relative standard deviations (%RSDs) were calculated for all compounds using calibration factors determined from the initial calibration using the EC detector. The %RSD for the following target analyte exceeded the recommended QC criteria of 20.0%

Compound	%RSD
beta-BHC	22%

Methoxychlor was spiked in at concentrations too low to be detected by the EC detector until the 0.5 ppm initial calibration standard. Therefore, all detected results for this analyte are qualified "R" as rejected and unusable, and the practical quantitation limit (PQL) was raised accordingly for the water samples.

Due to the large percent RSD in the analyte listed above, the detected results for this compound is qualified "J" as estimated and usable for limited purposes.

B.2 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.01 ppm to 1.0 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using calibration factors determined from the initial calibration using the ECD detector. The %RSDs for the following target analytes exceeded the recommended QC criteria of 20.0%

Compound	%RSD
Endosulfan II	37.9%
Endrin Aldehyde	30.6%
DDT/Endosulfan Sulfate	32.0%
Endrin Ketone	32.6%

Due to the large percent RSDs, the detected results for these compounds are qualified "J" as estimated and are usable for limited purposes.

Methoxychlor was spiked in at concentrations too low to be detected by the ECD detector until the 0.5 ppm initial calibration standard. Therefore, all detected results

for this analyte are qualified "R" as rejected and unusable, and the PQL was raised accordingly for the soil samples.

## C. <u>Continuing Calibration:</u>

C.1 Chlordane and methoxychlor percent recoveries could not be calculated due to low sensitivity and interference problems. All detected results for these compounds in the soil samples are qualified "R" as rejected.

All QC criteria for the pesticides were met except for the following analytes.

Compound	<u>%R</u>	QC Criteria
Endosulfan I	139%	75-125
Endrin/4,4'-DDD	153%	<i>75-</i> 125

The results for the above two analytes were outside the QC criteria, therefore all detected results and the PQLs for the two analytes listed above, associated with the soil samples are qualified "J" as estimated and usable for limited purposes.

C.2 No continuing calibrations were analyzed during the sequence with the exception of the column degradation solution containing Endrin and DDT. The stability of the instrument, GC column, and detector were monitored using the Endrin and DDT column degradation solution and the Aroclor 1254 continuing calibration solution. These two solutions were used to check area consistency and surrogate area stability. It is the opinion of the reviewer, that since no pesticide continuing calibration solutions were analyzed, this is the only criteria that can be used to monitor system performance.

Due to the absence of pesticide continuing calibrations, the PQLs for the target analytes in the project method blank and water samples are qualified "J" as estimated and usable for limited purposes.

## D. <u>Laboratory Blanks:</u>

D.1 The laboratory did not report the pesticide results for the method blank associated with this sample set. Reviewing the method blank raw data, the validator reported that target analytes were not detected in the method blank at a concentration above the PQL for the target analytes, and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Target analytes were not detected in the instrument blank at a concentration above the PQL and the results are considered acceptable.

## F. Field Blanks:

- F.1 Sample number LON-EB-02 was submitted as an equipment blank for this project sample set.
- F.2 Pesticide target analytes were not detected in the equipment blank at a concentration above the PQL for the target analytes, and the results are considered acceptable.

# G. <u>Field Duplicate Analyses:</u>

- G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field duplicate comparability.
- G.2 Sample numbers LON-BKGD-SWO1 and LON-BKGD-SW03 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

# I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

1.1 No matrix spike and matrix spike duplicate analyses were performed for the pesticide fraction.

## J. System Performance:

- J.1 The laboratory set up the GC analytical run time on the primary GC column to elute all pesticide analytes within 9 minutes, causing co-elution of numerous pesticides and making identification difficult. A slower temperature program and/or slower carrier gas flow rate would increase resolution for many of the pesticide analytes.
- J.2 The Endrin and 4,4'-DDT breakdown met QC criteria and the results are considered acceptable.
- J.3 No other problems with system performance were observed for all other project sample analyses.

## K. Quantitation and Identification:

- K.1 Due to the absence of pesticide continuing calibrations, all PQLs for the target analytes in the project method blanks and the samples are qualified "J" as estimated and usable for limited purposes.
- K.2 Due to sensitivity problems with methoxychlor in the initial calibration, the PQL was raised by the reviewer to 0.5 ppm for the soil samples, and 10 ppb for the water samples.
- K.3 The laboratory did not report the pesticide results for the method blanks associated with this sample set. The reviewer, by looking at the raw data from the method blanks reported that no target analytes were not detected at a concentration above the PQL for the target analytes, and the results are considered acceptable.
- K.4 The PQLs for the target analytes reported by the laboratory of 2 ppb for the water samples are incorrect. The PQLs for these analytes have been corrected to 0.2 ppb on the summary data form by the reviewer.
- K.5 The PQLs for the target analytes reported by the laboratory of 0.01 ppb for the soil samples are incorrect due to incorrect percent moisture calculation. The

PQLs for these analytes have been corrected on the summary data form by the reviewer.

K.6 No other problems with compound quantitation and identification were observed.

#### L. Conclusion:

- L.1 No target analytes were detected in the method blanks or the samples at a concentration above the PQLs for the target analytes.
- L.2 Due to the absence of a pesticide continuing calibration, all PQLs for the target analytes in the method blanks and samples are qualified "J" as estimated and usable for limited purposes.
- L.3 Due to low sensitivity and hydrocarbon interference detected in the initial calibration, the PQL for methoxychlor in the method blank and samples was raised to <0.5 ppm for the soil samples and <10 ppb for the water samples.
- L.4 The PQLs for the target analytes in the water samples and soil samples have been corrected on the summary data forms by the reviewer.

Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

## II. <u>VALIDITY & COMMENTS:</u>

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. Initial Calibration:

- B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 30.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 30.3 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.
- B.2 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. <u>Instrument Blanks:</u>

E.1 PCBs were not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

## F. Field Blanks:

- F.1 Sample number LON-EB-02 was submitted as an equipment blank for this project sample set.
- F.2 PCBs were not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

## G. <u>Field Duplicate Analyses:</u>

G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field duplicate

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#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY/ DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

MATRIX: DATE: Water and Soil April 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 3 water samples and 2 soil samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 416) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-BKGD-SW03	688	Water
LON-EB-02	694	Water
LON-BKGD-S01	699	Soil
LON-BKGD-SD02	700	Soil
LON-BKGD-SW01	707	Water

The following sample designations were included in project documentation: sample numbers LON-BKGD-SWO1 and LON-BKGD-SWO3 were designated as field duplicate samples, and sample number LON-EB-02 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional

comparability.

G.2 Sample numbers LON-BKGD-SWO1 and LON-BKGD-SW03 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

## 1. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used by the laboratory for the matrix spike and matrix spike duplicate analyses. All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.
- 1.2 No matrix spike/matrix spike duplicate analyses was performed for the soil project samples.

## J. System Performance:

J.1 No problems with system performance were observed for the project sample analyses.

## K. Quantitation and Identification:

- K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project samples.
- K.2 The laboratory reported incorrect PQLs for sample numbers LON-BKGD-S01 and LON-BKGD-SD02 due to the percent dry weight values. The PQLs have been corrected on the data summary forms by the reviewer.
- K.3 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.4 No other problems with compound quantitation and identification were observed for this project sample set.

## L. <u>Conclusion:</u>

- L.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the samples, and the results are considered acceptable.
- L.2 The PQLs of the PCBs for sample numbers LON-BKGD-S01 and LON-BKGD-SD02 were corrected on the data summary form by the reviewer.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Water and Soil

DATE:

March 10, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 4 soil and 3 water samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 0416). Two of the soil samples and the three water samples required analysis for the halogenated volatile organic compounds (HVOCs) and the BTEX compounds, and two of the soil samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 27 and August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-BKGD-SW01	706	Water
LON-BKGD-SW03	690	Water
LON-EB-02	696	Water
LON-BKGD-S01	699	Soil
LON-BKGD-SD02	700	Soil
LON-SS05-SD03	702	Soil
LON-SS05-SD08	704	Soil

The following QC sample designations were included in project documentation: sample numbers LON-BKGD-SW01 and LON-BKGD-SW03 were designated as field duplicates and

sample number LON-EB-02 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

## II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

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#### DATA VALIDATION REPORT

PROGRAM: LABORATORY: Dewline/Point Lonely RI/FS (ICF Project No. 41096-412-02) Commercial Testing & Engineering Co. (Anchorage, AK)

REVIEWER:

Cynthia E. Schlag, ICF Kaiser Engineers, Inc.

ANALYSIS:

Extractable Petroleum Hydrocarbons by USEPA Method 8100M

MATRIX:

Water and Soil May 18, 1994

DATE:

#### I. INTRODUCTION:

Commercial Testing & Engineering Co. (CT&E) (Anchorage, AK) received two (2) water and two (2) soil samples for Extractable Petroleum Hydrocarbons (EPH) analysis by USEPA Method 8100M on September 4 and 5, 1993. The samples were extracted on September 8 and 14, 1993 and analyzed for EPH by gas chromatography with flame ionization detection (GC/FID) on September 9, 10, 15 and 16, 1993.

The ICF site identification numbers and corresponding CT&E laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	Matrix
LON-SS05-2S19-3	93.4626-01	Soil
LON-SS05-2SD09	93.4626-02	Soil
LON-EB-05	93.4626-06	Water
LON-EB-08	93.4626-13	Water

The following QC sample designations were included in project documentation: sample numbers LON-EB-05 and LON-EB-08 were designated as "equipment blanks."

The analytical results for project soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared according to the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8100 and the Project Sampling and Analysis Plan.

## II. VALIDITY & COMMENTS:

- A. <u>Technical Holding Times:</u>
  - A.1 Technical holding time QC criteria were met for all project sample analyses.
- B. <u>Initial Calibration</u>:
  - B.1 All QC criteria for the initial calibration were met and the results are considered acceptable.
- C. <u>Continuing Calibrations:</u>
  - C.1 All QC criteria for continuing calibration were met and the results are considered acceptable.
- D. <u>Laboratory Blanks</u>:
  - D.1 The target analyte was not detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable
- E. Field Blanks:
  - E.1 The target analyte was detected in sample number LON-EB-08 at a concentration of 0.289 mg/L. Therefore, the detected results for sample numbers LON-SS05-2S19-3 and LON-SS05-2SD09 are considered estimated (J) and usable for limited purposes only (see modified sample data sheets).
  - E.2 All other field blanks met QC criteria and the results are considered acceptable.
- F. <u>Laboratory Control Sample Analysis:</u>
  - F.1 The laboratory control sample QC criteria were met for all "blank spike" analyses and the results are considered acceptable.
- G. Field Duplicate Analysis:
  - G.1 No field duplicate analysis is included in the project documentation.
- H. Surrogate Recoveries:
  - H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.
- I. Matrix Spike/Matrix Spike Duplicate Analyses:
  - I.1 The matrix spike (MS) and matrix spike duplicate (MSD) analyses met all QC criteria and the results are considered acceptable.
- J. Quantitation and Identification:
  - J.1 The chromatographic pattern of sample numbers LON-SS05-2S19-3, LON-SS05-2SD09, and LON-EB-08 were not consistent with the chomatographic pattern of middle distillate fuel (diesel fuel). It is the opinion of the reviewer that the peaks are due to higher molecular weight hydrocarbons. Therefore, the detected results for EPH in these samples are considered estimated (J) and are usable for limited purposes (see modified sample data sheets).
  - J.2 No other problems were observed with sample quantitation and identification.

## K. <u>Conclusion:</u>

K.1 Due to the inconsistency of the chromatographic pattern with the diesel fuel standard and field blank contamination, select data are considered as estimated and usable for limited purposes.



K.2 All other data are considered valid and usable for all purposes.

## C. <u>Continuing Calibrations</u>:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

## D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

## E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

## F. Field Blanks:

- F.1 Sample number LON-EB-02 was designated as an equipment blank.
- F.2 No target analytes were detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

## G. Field Duplicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field duplicate comparability.
- G.2 Samples LON-BKGD-SW01 and LON-BKGD-SW03 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

#### H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

## I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

- I.1 Sample number LON-SS05-S01, which was associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.
- I.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

#### J. System Performance:

J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound

identification confirmation.

- J.2 It is the opinion of the reviewer that the reported detected results in sample number LON-SS05-SD03 are the result of carryover from a previous sample. Therefore, the PQLs for BTEX in this sample have been raised to the reported detected results by the reviewer and are qualified "J" as estimated and usable for limited purposes.
- J.3 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

#### L. Conclusion:

- L.1 Due to carryover from a previous sample, the PQLs for BTEX in sample number LON-SS05-SD03 have been raised to the reported detected results and are qualified "J" as estimated and usable for limited purposes.
- L.2 There were no target analytes detected at a concentration above the PQLs in any of the project samples.
- L.3 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

ANALYSIS:

Gasoline by USEPA Method 8015M

MATRIX:

Water and Soil

DATE:

April 5, 1995

## I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 4 soil and 3 water samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 0416). All of the samples required analysis for the Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 27 and August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-BKGD-SW01	706	Water
LON-BKGD-SW03	690	Water
LON-EB-02	696	Water
LON-BKGD-S01	699	Soil
LON-BKGD-SD02	700	Soil
LON-SS05-SD03	702	Soil
LON-SS05-SD08	704	Soil

The following QC sample designations were included in project documentation: sample numbers LON-BKGD-SW01 and LON-BKGD-SW03 were designated as field duplicates and sample number LON-EB-02 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. <u>Initial Calibration:</u>

- B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.
- B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the

instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

### D. Laboratory Blanks:

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. <u>Instrument Blanks:</u>

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

- F.1 Sample number LON-EB-02 was designated as an equipment blank.
- F.2 Gasoline was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

### G. Field Duplicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field duplicate comparability.
- G.2 Samples LON-BKGD-SW01 and LON-BKGD-SW03 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

#### H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

#### I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

#### J. System Performance:

- J.1 It is the opinion of the reviewer that the reported detected result for gasoline in sample number LON-SS05-SD03 is the result of carryover from a previous sample. Therefore, the PQL for gasoline in this sample has been raised to the reported detected result and qualified "J" as estimated and is usable for limited purposes.
- J.2 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 The laboratory reported a PQL of 50 ppb for gasoline in the water samples associated with this project sample set. Since the low point in the initial calibration on system 3-4 was 100 ppb, the PQL has been raised to 100 ppb for the three water samples.
- K.2 No other problems were observed with compound quantitation and identification.

## L. <u>Conclusion:</u>

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 The PQL for gasoline in the water samples has been raised to 100 ppb since the low point in the initial calibration is 100 ppb.
- L.3 Due to carryover from a previous sample, the PQL for gasoline in sample number LON-SS05-SD03 has been raised by the reviewer and has been qualified "J" as estimated and is usable for limited purposes.



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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Soil and Water

DATE:

March 10, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 1 water sample and 8 soil samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 419) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 25, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS12-S01	502	Soil
LON-SS12-S03	504	Soil
LON-SS12-S02	506	Soil
LON-SS12-SW01	514	Water
LON-SS12-SD01	516	Soil
LON-SS04-S01	518	Soil
LON-SS04-SD01	520	Soil
LON-SS04-SD02	522	Soil
LON-SS04-S02	524	Soil

Sample number LON-SS04-3W01 was marked on the chain-of-custody for TPH analyses, even though the comments stated VOA only. The laboratory did not perform TPH analysis on this sample.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

It should be noted that all quantitation limits reported by the laboratory for project water samples (200 ppb) were lower than those specified in the Project Sampling and Analysis Plan (500 ppb). The correct practical quantitation limits (PQLs) when employing the lowest usable calibration point (50 ppm) should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.2% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 31.2% exceeds the recommended QC criteria of 20.0%. Therefore, the detected results for diesel in all the water samples are qualified "J" as estimated and usable for limited purposes.

### C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. Laboratory Blanks:

D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

## E. <u>Instrument Blanks:</u>

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

## F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

# G. Field Replicate Analyses:

G.1 There were no field replicate analyses associated with this project sample set.

## H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

# I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

## J. System Performance:

.1 No problems with system performance were observed for all project samples.

# K. Quantitation and Identification:

- K.1 The laboratory reported diesel in sample number LON-SS04-S01 at a concentration of 2000 ppm. It is the opinion of the reviewer that diesel was not present in the sample because the sample chromatogram did not support the diesel pattern, but did show hydrocarbon contamination. Therefore, the reported result was changed to the appropriate PQL on the data summary form by the reviewer.
- K.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems were observed with compound quantitation and identification.

#### L. Conclusion:

- L.1 Sample number LON-SS04-3W01 was marked on the chain-of-custody for TPH analyses, even though the comments on the chain of custody stated VOA only. The laboratory did not perform TPH analysis on this sample.
- L.2 Due to hydrocarbon contamination, the diesel result of 2000 ppm detected in sample number LON-SS04-S01 was changed to the appropriate PQL level by the reviewer on the data summary form.
- L.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

ANALYSIS:

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Water and Soil

DATE:

March 12, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 8 soil samples and 4 water samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 0419). Two of the water samples required analysis for the halogenated volatile organic compounds (HVOCs) and all of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 25 and August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS12-S01	502	Soil
LON-SS12-S03	504	Soil
LON-SS12-S02	506	Soil
LON-SS04-SW01	508	Water
LON-SS12-SW01	512	Water
LON-SS12-SD01	516	Soil
LON-SS04-S01	518	Soil
LON-SS04-SD01	520	Soil
LON-SS04-SD02	522	Soil
LON-SS04-S02	524	Soil
LON-TB-01	528	Water
LON-GAR-TB	526	Water

The laboratory indicated that the sample which was labeled on the chain of custody form as sample number LON-TB-01 was labeled on the container as sample number LON-EB-01. The following QC sample designations were included in project documentation: sample number LON-EB-01 was designated as an equipment blank and sample number LON-GAR-TB was designated as a trip blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

## II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	<u>% RSD</u>
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a five point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for

all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
ethylbenzene	23.2 %
m & p-xylene	22.6 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

B.3 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

## C. Continuing Calibrations:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

## E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-EB-01 was designated as an equipment blank and sample number LON-GAR-TB was designated as a trip blank.
- F.2 No target analytes were detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.
- F.3 No target analytes were detected in the trip blank at a concentration above the PQL and the results are considered acceptable.

G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

- 1.1 Sample number LON-SS04-S02 was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 No other problems with system performance were observed for the project samples.

K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 Discrepancies exist between the results reported by the laboratory and the results recalculated by the reviewer for some of the analytes in sample number LON-SS04-SD01. The recalculated results have been included on the data summary form.
- K.3 No other problems were observed for compound quantitation and identification.

L. Conclusion:

- L.1 Due to the large % RSDs for some of the analytes in the initial calibrations, the detected results for these analytes are qualified "J" as estimated and are usable for limited purposes.
- L.2 Discrepancies exist between the results reported by the laboratory and the results recalculated by the reviewer for some of the analytes in sample number LON-SS04-SD01. The corrected results have been inserted on the data summary forms.
- L.3 All other data are considered valid and usable for all purposes.

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#### DATA VALIDATION REPORT

PROGRAM: Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Keith Strout

ANALYSIS: Gasoline by USEPA Method 8015M

MATRIX: Water and Soil DATE: April 6, 1995

## I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 8 soil samples and 4 water samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 0419). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 25 and August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS12-S01	502	Soil
LON-SS12-S03	504	Soil
LON-SS12-S02	506	Soil
LON-SS04-SW01	508	Water
LON-SS12-SW01	512	Water
LON-SS12-SD01	516	Soil
LON-SS04-S01	518	Soil
LON-SS04-SD01	520	Soil
LON-SS04-SD02	522	Soil
LON-SS04-S02	524	Soil
LON-TB-01	528	Water
LON-GAR-TB	526	Water

The laboratory indicated that the sample which was labeled on the chain of custody form as sample number LON-TB-01 was labeled as sample number LON-EB-01 on the container. The following QC sample designations were included in project documentation: sample number LON-EB-01 was designated as an equipment blank and sample number LON-GAR-TB was designated as a trip blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

## II. VALIDITY & COMMENTS:

- A. <u>Technical Holding Times:</u>
  - A.1 The technical holding time QC criteria were met for all project sample analyses.
- B. <u>Initial Calibration:</u>
  - B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.
  - B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.
- C. <u>Continuing Calibrations:</u>
  - C.1 The laboratory did not perform any continuing calibrations for the gasoline

fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

## D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

## E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

- F.1 Sample number LON-EB-01 was designated as an equipment blank and sample number LON-GAR-TB was designated as a trip blank.
- F.2 Gasoline was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.
- F.3 Gasoline was not detected in the trip blank at a concentration above the PQL and the results are considered acceptable.

#### G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

### H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

## I. Matrix Spike/Matrix Spike Duplicate Analyses:

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

## J. System Performance:

J.1 No problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 No problems were observed with compound quantitation and identification.
- K.2 The low calibration standard in the initial calibration on system 3-4 was 100 ppb, therefore the reported PQL for gasoline in the samples analyzed on system 3-4 have been adjusted by the reviewer.

## L. Conclusion:

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 Since the low calibration standard in the initial calibration on system 3-4 was 100 ppb, the PQL for gasoline in the samples analyzed on system 3-4 have been adjusted accordingly.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

MATRIX:

Soil and Water

DATE:

March 10, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 7 soil samples and 3 water samples from the Point Lonely site on August 24, 1993 (referenced chain of custody record No. 418) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-EB-01	534	Water
LON-SS03-S01	536	Soil
LON-SS03-S02	538	Soil
LON-SS03-S03	540	Soil
LON-SS03-S04	542	Soil
LON-SS03-S05	544	Soil
LON-SS03-SD01	546	Soil
LON-SS03-SD02	548	Soil
LON-SS03-SW01	549	Water
LON-SS03-SW02	550	Water

The following QC sample designations were included in project documentation: sample numbers LON-SS03-S04 and LON-SS03-S05 were designated as field replicates, and sample number LON-EB-01 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

## J. <u>System Performance:</u>

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 It is the opinion of the reviewer that carryover from a previous sample was present in sample number LON-SS05-S01, therefore the PQLs in this sample have been raised by the reviewer and are qualified "J" as estimated and usable for limited purposes.
- J.3 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 The PQLs in sample number LON-SS05-SD02 have been adjusted by the reviewer for the moisture content of the sample.
- K.3 No other problems were observed for compound quantitation and identification.

## L. <u>Conclusion:</u>

- L.1 Due to the large %RSDs for benzene and xylene in the initial calibration, the detected results for these two compounds in some of the project samples are qualified "J" as estimated and are usable for limited purposes.
- L.2 Due to carryover in sample number LON-SS05-S01, the PQLs have been adjusted and are qualified "J" as estimated and are usable for limited purposes.
- L.3 All other data are considered valid and usable for all purposes.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX:

Soil

DATE:

April 5, 1995

## I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 14 soil samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 0417). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS05-S01	708	Soil
LON-SS05-S02-03	710	Soil
LON-SS05-SD01	712	Soil
LON-SS05-S03	714	Soil
LON-SS05-SD02	716	Soil
LON-SS05-S04-03	718	Soil
LON-SS05-S05	720	Soil
LON-SS05-S07	722	Soil
LON-SS05-SD07	724	Soil
LON-SS05-SD04	726	Soil
LON-SS05-S06-01	728	Soil
LON-SS05-S08-01	730	Soil
LON-SS05-S18-2.5	732	Soil
LON-BKGD-SD01	734	Soil

The following QC sample designations were included in project documentation: sample numbers LON-SS05-SD07 and LON-SS05-SD08, which is from chain of custody record no. 0416, were designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

#### C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

It should be noted that all quantitation limits reported by the laboratory for project water samples (200 ppb) were lower than those specified in the Project Sampling and Analysis Plan (500 ppb). The correct practical quantitation limits (PQLs) when employing the lowest usable calibration point (50 ppm) should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.2% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 31.2% exceeds the recommended QC criteria of 20.0%. Therefore, the detected results for diesel in all the water samples are qualified "J" as estimated and usable for limited purposes.

#### C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. <u>Instrument Blanks:</u>

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

### F. Field Blanks:

- F.1 Sample number LON-EB01 was designated as an equipment blank.
- F.2 Diesel was not detected at a concentration above the PQL and the results are considered acceptable.

## G. Field Replicate Analyses:

- G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS03-S04 and LON-SS03-S05 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

### I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used by the laboratory for the water matrix spike and matrix spike duplicate analyses.
- 1.2 All of the matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

# J. System Performance:

J.1 No problems with system performance were observed for all project samples.

#### K. Quantitation and Identification:

- K.1 The laboratory reported diesel in sample LON-SS03-S01 at a concentration of 50 ppm. Since the chromatogram did not support any diesel pattern, it is the opinion of the reviewer that the laboratory inadvertently omitted to insert the "<" before the 50 ppm. The PQL has been corrected on the data summary form by the reviewer.
- K.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 The laboratory reported incorrect PQLs for sample numbers LON-SS03-S03 and LON-SS03-SD01. The PQLs have been corrected on the data summary forms by the reviewer.
- K.4 No other problems were observed with compound quantitation and identification.

## L. <u>Conclusion:</u>

- L.1 Diesel was not detected in the project water and soil samples at a concentration above the PQL and the results are considered acceptable.
- L.2 As discussed above, The PQLs of three soil samples were corrected on the data summary form by the reviewer.

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#### **DATA VALIDATION REPORT**

**PROGRAM:** 

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

MATRIX:

Water

DATE:

April 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 1 water sample from the Point Lonely site on August 24, 1993 (referenced chain of custody record No. 418) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The sample was analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 26, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No. LON-EB-01 Lab Sample No. 534

<u>Matrix</u> Water

The following set of QC sample designations were included in project documentation: sample number LON-EB-01 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

#### A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration:</u>

B.1 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. <u>Laboratory Blanks:</u>

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 PCBs were not detected in the instrument blank at a concentration above the PQL and the results are considered acceptable.

F. Field Blanks:

- F.1 Sample number LON-EB-01 was submitted as an equipment blank.
- F.2 PCBs were not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

G. Field Replicate Analyses:

G.1 There were no field replicate samples associated with this project sample set.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used by the laboratory for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. System Performance:

- J.1 No problems with system performance were observed for the project sample analyses.
- K. Quantitation and Identification:
  - K.1 PCBs were not detected at concentrations above the PQL of the PCBs in sample number LON-EB-01.

- K.2 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems with compound quantitation and identification were observed for this project sample set.

### L. <u>Conclusion:</u>

L.1 PCBs were not detected at concentrations above the PQL of the PCBs in sample number LON-EB-01, and the results are considered acceptable.

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#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

MATRIX:

Water and Soil

DATE:

March 10, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 7 soil samples and 3 water samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 0418). One of the water samples required analysis for the halogenated volatile organic compounds (HVOCs) and all of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 25 and August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-EB-01	530	Water
LON-SS03-S01	536	Soil
LON-SS03-S02	538	Soil
LON-SS03-S03	540	Soil
LON-SS03-S04	542	Soil
LON-SS03-S05	544	Soil
LON-SS03-SD01	546	Soil
LON-SS03-SD02	548	Soil
LON-SS03-SW01	552	Water
LON-SS03-SW02	554	Water

The following QC sample designations were included in project documentation: sample numbers LON-SS03-S04 and LON-SS03-S05 were designated as field replicates and sample number LON-EB-01 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

B.3 The laboratory analyzed a five point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	<u>% RSD</u>
ethylbenzene	23.2 %
m & p-xylene	22.6 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

### C. Continuing Calibrations:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

## D. Laboratory Blanks:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

## E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

## F. Field Blanks:

- F.1 Sample number LON-EB-01 was designated as an equipment blank.
- F.2 No target analytes were detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

## G. Field Replicate Analysis:

- G.1 A QC limit for precision of ≤ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples LON-SS03-S04 and LON-SS03-S05 were utilized for field replicate analysis. The results of the field replicate analyses, except for the moisture content of the samples, met all applicable QC criteria and the results are considered

acceptable.

### H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

### I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

- I.1 Sample number LON-SS04-S02, which is associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.
- I.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

### J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

#### L. Conclusion:

- L.1 There were no target analytes detected at a concentration above the PQLs in any of the project samples.
- L.2 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** 

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX:

Water and Soil

DATE:

April 6, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 7 soil samples and 3 water samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 0418). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline USEPA Method 8015M (modified) (GC/FID) on August 25 and August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-EB-01	530	Water
LON-SS03-S01	536	Soil
LON-SS03-S02	538	Soil
LON-SS03-S03	540	Soil
LON-SS03-S04	542	Soil
LON-SS03-S05	544	Soil
LON-SS03-SD01	546	Soil
LON-SS03-SD02	548	Soil
LON-SS03-SW01	552	Water
LON-SS03-SW02	554	Water

The following QC sample designations were included in project documentation: sample numbers LON-SS03-S04 and LON-SS03-S05 were designated as field replicates and sample number LON-EB-01 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

#### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

### C. Continuing Calibrations:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the

instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

## D. Laboratory Blanks:

D.1 Gasoline was not detected in the method blanks at a concentration above the POL and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

- F.1 Sample number LON-EB-01 was designated as an equipment blank.
- F.2 Gasoline was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

### G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples LON-SS03-S04 and LON-SS03-S05 were utilized for field replicate analyses. The results of the field replicate analyses, except for the moisture content, met all applicable QC criteria and the results are considered acceptable.

#### H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

### I. Matrix Spike/Matrix Spike Duplicate Analyses:

I.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

### J. System Performance:

J.1 No problems with system performance were observed for the project samples.

### K. Quantitation and Identification:

K.1 The laboratory reported a PQL of 50 ppb for gasoline in the samples associated with this project sample set which were analyzed on system 3-4. Since the low point in the initial calibration on system 3-4 was 100 ppb, the PQL has been raised to 100 ppb for the three water samples.

K.2 No other problems were observed with compound quantitation and identification.

### L. <u>Conclusion:</u>

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 Since the low calibration standard in the initial calibration on system 3-4 was 100 ppb, the PQL for the samples analyzed on this system has been adjusted accordingly.

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#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

MATRIX:

Soil

DATE:

March 10, 1994

### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 14 soil samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 417) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 26, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-SS05-S01	708	Soil
LON-SS05-S02-03	710	Soil
LON-SS05-SD01	712	Soil
LON-SS05-S03	714	Soil
LON-SS05-SD02	716	Soil
LON-SS05-S04-03	718	Soil
LON-SS05-S05	720	Soil
LON-SS05-S07	722	Soil
LON-SS05-SD07	724	Soil
LON-SS05-SD04	726	Soil
LON-SS05-S06-01	728	Soil
LON-SS05-S08-01	730	Soil
LON-SS05-S18-2.5	732	Soil
LON-BKGD-SD01	734	. Soil

The following QC sample designations were included in project documentation: sample numbers LON-SS05-SD07 and LON-SS05-S08-01 were designated as field replicate samples.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration:</u>

B.1 The laboratory attempted to perform a 6 point initial calibration curve on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 50 ppm to 10,000 ppm. The 500 ppm and the 200 ppm standards were not used due to autosampler injection errors. A percent relative standard deviation (%RSD) of 48.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 48.3% exceeds the recommended QC criteria of 20.0%. Since the initial calibration was established with only a 4 point calibration curve, and the %RSD exceeds the recommended criteria, the detected results for diesel in all the soil samples are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

G. Field Replicate Analyses:

G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent

Difference (RPD) between soil sample values, was specified for field replicate comparability.

G.2 Sample numbers LON-SS05-SD07 and LON-SS05-S08-01 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

### I. Matrix Spike/Matrix Spike Duplicate:

1.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

### J. <u>System Performance:</u>

J.1 No problems with system performance were observed for all project samples.

### K. Quantitation and Identification:

K.1 Diesel was detected in sample numbers LON-SS05-S18-2.5 and LON-SS05-SD04 at a concentration of 1300 ppm in each sample.

- K.2 The laboratory reported diesel in sample LON-BKGD-SD01 at a concentration of 150 ppm. It is the opinion of the reviewer that the diesel was contaminated with hydrocarbons. Therefore, the reported result was qualified "J" as estimated and usable for limited purposes.
- K.3 The laboratory reported a mixture of diesel and oil at a concentration between 50 ppm and 120 ppm in eight of the samples. It is the opinion of the reviewer that this is unknown hydrocarbon contamination, therefore, the results have been adjusted to the correct PQL levels on the data summary form by the reviewer.
- K.4 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.5 No other problems were observed with compound quantitation and identification.

#### L. Conclusion:

- L.1 Diesel was detected at a concentration of 1300 ppm in both sample numbers LON-SS05-S18-2.5 and LON-SS05-SD04-03.
- L.2 Sample number LON-BKGD-SD01 contained diesel at a concentration of 150 ppm. The result was qualified "J" as estimated and usable for limited purposes by the reviewer due to hydrocarbon contamination present in the sample.
- L.3 The laboratory reported a mixture of diesel and oil in eight of the soil

samples. It is the opinion of the reviewer that since it was impossible to distinguish a diesel pattern, the oil and diesel results have been changed to the correct PQLs on the data summary form by the reviewer.

L.4 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY/ DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Pesticides by USEPA Method 8080

MATRIX:

Soil

DATE:

April 20, 1995

#### **INTRODUCTION:** 1.

Friedman & Bruya, Inc. (Seattle, WA) received 1 soil sample from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 417) for pesticide analysis by the pesticide organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The sample was analyzed for pesticides by USEPA Method 8080 on August 26, 1993.

The ICF site identification number and corresponding FBI laboratory sample identification number is listed below.

ICF Site No. LON-BKGD-SD01 Lab Sample No.

<u>Matrix</u> Soil

734

The analytical results for the soil sample were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

#### H. **VALIDITY & COMMENTS:**

Technical Holding Times: A.

The technical holding time QC criteria were met for all project sample

analyses.

### B. <u>Initial Calibration:</u>

B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.01 ppm to 1.0 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using calibration factors determined from the initial calibration using the ECD detector. The %RSDs for the following target analytes exceeded the recommended QC criteria of 20.0%

Compound	<u>%RSD</u>
Endosulfan II	37.9%
Endrin Aldehyde	30.6%
DDT/Endosulfan Sulfate	32.0%
Endrin Ketone	32.6%

Due to the large percent RSDs, the detected results for these compounds are qualified "J" as estimated and are usable for limited purposes.

Methoxychlor was spiked in at concentrations too low to be detected by the EC detector until the 0.5 ppm initial calibration standard. Therefore, all detected results for this analyte are qualified "R" as rejected and unusable, and the practical quantitation limit (PQL) was raised accordingly for the soil sample.

## C. <u>Continuing Calibration:</u>

C.1 No continuing calibrations were analyzed during the sequence with the exception of the column degradation solution containing Endrin and DDT. The stability of the instrument, GC column, and detector were monitored using the Endrin and DDT column degradation solution and the Aroclor 1254 continuing calibration solution. These two solutions were used to check area consistency and surrogate area stability. It is the opinion of the reviewer, that since no pesticide continuing calibration solutions were analyzed, this is the only criteria that can be used to monitor system performance.

Due to the absence of pesticide continuing calibrations, the PQLs for the target analytes in the project method blank and soil sample are qualified "J" as estimated and usable for limited purposes.

#### D. Laboratory Blanks:

D.1 The laboratory did not report the pesticide results for the method blank associated with this sample set. Reviewing the method blank raw data, the validator reported that target analytes were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Target analytes were not detected in the instrument blank at a concentration

above the PQL for the target analytes, and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blanks submitted for analyses with this project sample set.

### G. Field Replicate Analyses:

G.1 There were no field replicate samples submitted for analyses with this project sample set.

### H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

### I. Matrix Spike/Matrix Spike Duplicate:

I.1 No matrix spike and matrix spike duplicate analyses were performed for the pesticide fraction.

### J. System Performance:

- J.1 The laboratory set up the GC analytical run time on the primary GC column to elute all pesticide analytes within 9 minutes, causing co-elution of numerous pesticides and making identification difficult. A slower temperature program and/or slower carrier gas flow rate would increase resolution for many of the pesticide analytes.
- J.2 The Endrin and 4,4'-DDT breakdown met QC criteria and the results are considered acceptable.
- J.3 No other problems with system performance were observed for all other project sample analyses.

### K. Quantitation and Identification:

- K.1 Due to the absence of pesticide continuing calibrations, all PQLs for the target analytes in the project method blank and the sample are qualified "J" as estimated and usable for limited purposes.
- K.2 Due to sensitivity problems with methoxychlor in the initial calibration, the PQL for methoxychlor was raised by the reviewer to 0.5 ppm for the soil sample.
- K.3 The laboratory did not report the pesticide results for the method blank associated with this sample set. The reviewer, by looking at the raw data from the method blank reported that no target analytes were not detected at a concentration above the PQL for the target analytes, and the results are considered acceptable.
- K.4 The laboratory reported incorrect PQLs of 0.01 ppm for the target analytes in the soil sample due to incorrect percent moisture calculation. The PQLs have been corrected to 0.02 ppm on the data summary form by the reviewer.

K.5 No other problems with compound quantitation and identification were observed.

### L. <u>Conclusion:</u>

- L.1 No target analytes were detected in the method blank or the project soil sample at a concentration above the PQLs for the target analytes.
- L.2 Due to the absence of a pesticide continuing calibration, all PQLs for the target analytes in the method blank and sample are qualified "J" as estimated and usable for limited purposes.
- L.3 Due to low sensitivity and hydrocarbon interference detected in the initial calibration, the PQL for methoxychlor in the method blank and sample was raised to <0.5 ppm for the soil sample.
- L.4 The PQLs for the target analytes in the sample have been corrected on the summary data form by the reviewer.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

MATRIX:

Soil

DATE:

April 20, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 1 soil sample from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 417) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The sample was analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 26, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No. LON-BKGD-SD01 Lab Sample No. 734

<u>Matrix</u> Soil

The analytical results were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

#### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 30.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 30.3 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. <u>Laboratory Blanks:</u>

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 PCBs were not detected in the instrument blank at a concentration above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

G. Field Replicate Analyses:

G.1 There were no field replicate samples associated with this project sample set.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

1. Matrix Spike/Matrix Spike Duplicate:

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the PCB fraction. It is not known what effect this will have on the quality of the data.

J. <u>System Performance:</u>

J.1 No problems with system performance were observed for the project sample analyses.

K. Quantitation and Identification:

K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project samples.

K.2 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

K.3 No problems with compound quantitation and identification were observed for this project sample set.

L. <u>Conclusion:</u>

L.1 PCBs were not detected at concentrations above the PQL of the PCBs in the project soil sample and the results are considered acceptable.

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#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

**ANALYSIS:** 

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Soil

DATE:

March 10, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 14 soil samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 0417). One of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and all of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	Matrix
LON-SS05-S01	708	Soil
LON-SS05-S02-03	710	Soil
LON-SS05-SD01	712	Soil
LON-SS05-S03	714	Soil
LON-SS05-SD02	<i>7</i> 16	Soil
LON-SS05-S04-03	718	Soil
LON-SS05-S05	720	Soil
LON-SS05-S07	722	Soil
LON-SS05-SD07	724	Soil
LON-SS05-SD04	726	Soil
LON-SS05-S06-01	728	Soil
LON-SS05-S08-01	730	Soil

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS05-S18-2.5	732	Soil
LON-BKGD-SD01	734	Soil

The following QC sample designations were included in project documentation: sample numbers LON-SS05-SD07 and LON-SS05-SD08, which is from chain of custody record no. 0416, were designated as field replicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

### A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low

concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

### C. <u>Continuing Calibrations:</u>

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

### E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set designated in the project documentation.

### G. Field Duplicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field duplicate comparability.
- G.2 Samples LON-BKGD-SW01 and LON-BKGD-SW03, which are associated with chain of custody record 0416, were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

### I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

- I.1 Sample number LON-SS05-S01 was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

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C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

## D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

- F.1 Sample number LON-EB-05, which is associated with a different project sample set, was designated as an equipment blank.
- F.2 Gasoline was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

### G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples LON-SS05-SD07 and LON-SS05-SD08 (chain of custody record #0416) were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

# 1. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

## J. System Performance:

- J.1 It is the opinion of the reviewer that carryover contamination from a previous sample was present in sample number LON-SS05-S01. Therefore, the PQL for gasoline in this sample was raised and is qualified "J" as estimated and is usable for limited purposes.
- J.2 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

K.1 The laboratory incorrectly adjusted the PQL for gasoline in sample number LON-SS05-SD02 for moisture content. The PQL has been properly adjusted by the reviewer.

K.2 No other problems were observed with compound quantitation and identification.

### L. Conclusion:

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 Due to carryover contamination from a previous sample, the PQL for gasoline in sample number LON-SS05-S01 has been adjusted by the reviewer and is qualified "J" as estimated and usable for limited purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

MATRIX:

Soil

DATE:

March 10, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 13 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 443) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 30, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST10-SD03	1028	Soil
LON-ST10-SD01	1030	Soil
LON-ST02-S03	1032	Soil
LON-SS09-SD02	1034	Soil
LON-ST02-S04	1036	Soil
LON-ST02-S05	1038	Soil
LON-ST02-S06	1040	Soil
LON-ST02-S07	1042	Soil
LON-ST02-S08	1044	Soil
LON-ST10-SD05	1046	Soil
LON-ST10-SD04	1048	Soil
LON-ST10-S01	1050	Soil
LON-ST10-SD06	1052	Soil

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

## II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory performed a 3 point initial calibration on GC instrument ICF6 on August 29, 1993. The range of the initial calibration was from 100 ppm to 10,000 ppm. Due to the sensitivity present at the 100 ppm initial calibration standard, the practical quantitation limit (PQL) of 50 ppm does not need to be raised to the low point of this initial calibration (100 ppm). All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 9.04 was calculated using calibration factors determined from the initial calibration, and is within the recommended QC limit of 20.0%. However, since this is only a three point initial calibration curve, the detected results of the associated samples are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

G. Field Replicate Analyses:

G.1 There were no field replicate samples associated with this project sample set.

### H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

### I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

### J. System Performance:

J.1 No problems with system performance were observed for all project samples.

### K. Quantitation and Identification:

- K.1 Diesel was detected in sample number LON-ST10-SD03 at a concentration of 650 ppm, sample number LON-ST10-SD01 at a concentration of 390 ppm, sample number LON-ST02-S08 at a concentration of 130 ppm, and sample number LON-ST02-S07 at a concentration of 160 ppm.
- K.2 The laboratory reported diesel with oil contamination in sample numbers LON-SS09-D02 at a concentration of 90 ppm and LON-ST10-SD04 at a concentration of 90 ppm. It is the opinion of the reviewer that diesel was not present in the samples because the sample chromatograms did not support the diesel pattern, but did show hydrocarbon contamination. Therefore, the reported results were changed to the appropriate PQLs on the data summary page by the reviewer.
- K.3 Because the laboratory only performed a three point initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.4 No other problems were observed with compound quantitation and identification.

#### L. <u>Conclusion:</u>

- L.1 Diesel was detected in sample number LON-ST10-SD03 at a concentration of 650 ppm, sample number LON-ST10-SD01 at a concentration of 390 ppm, sample number LON-ST02-S08 at a concentration of 130 ppm, and sample number LON-ST02-S07 at a concentration of 160 ppm.
- L.2 Because only three points were used to establish the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

**MATRIX:** 

Soil

DATE:

April 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 7 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 443) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-ST02-S03	1032	Soil
LON-SS09-SD02	1034	Soil
LON-ST02-S04	1036	Soil
LON-ST02-S05	1038	Soil
LON-ST02-S06	1040	Soil
LON-ST02-S07	1042	Soil
LON-ST02-S08	1044	Soil

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document! National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

## II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 30.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 30.3 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 PCBs were not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blanks submitted for analysis with this project sample set.

G. Field Replicate Analyses:

G.1 There were no field replicate samples submitted for analysis with this project sample set.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

I. Matrix Spike/Matrix Spike Duplicate:

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. System Performance:

J.1 No problems with system performance were observed for the project sample analyses.

### K. Quantitation and Identification:

- K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project samples.
- K.2 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems with compound quantitation and identification were observed for this project sample set.

## L. <u>Conclusion:</u>

L.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project soil samples, and the results are considered acceptable.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### **DATA VALIDATION REPORT**

**PROGRAM:** Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER: Keith Strout

ANALYSIS: HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

MATRIX: Soil

**DATE:** March 17, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 13 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0443). Seven of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and all of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-ST10-SD03	1028	Soil
LON-ST10-SD01	1030	Soil
LON-ST02-S03	1032	Soil
LON-SS09-SD02	1034	Soil
LON-ST02-S04	1036	Soil
LON-ST02-S05	1038	Soil
LON-ST02-S06	1040	Soil
LON-ST02-S07	1042	Soil
LON-ST02-S08	1044	Soil
LON-ST10-SD05	1046	Soil
LON-ST10-SD04	1048	Soil
LON-ST10-S01	1050	Soil
LON-ST10-SD06	1052	Soil

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	<u>% RSD</u>
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 29, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
toluene	26 %
ethylbenzene	53 %
m & p-xylene	41 %
o-xylene	28 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 when quantitated using the FID detector are qualified "J" as estimated and are usable for limited purposes.

B.3 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

### C. Continuing Calibrations:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. Laboratory Blanks:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

### G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

### H. Surrogate Recoveries:

H.1 The surrogate recovery in sample number LON-ST10-SD04 exceeded the QC acceptance limits, probably due to interference from late eluting hydrocarbons. It is the opinion of the reviewer that this will not have an adverse effect on the quality of the data.

H.2 All other surrogate recoveries met applicable QC criteria and the results are considered acceptable.

## I. Matrix Spike/Matrix Spike Duplicate Analyses:

- I.1 Sample number LON-ST10-S01 was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

## J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 It is the opinion of the reviewer that carryover contamination from a previous sample was present in the analysis of sample number LON-ST10-SD04. The PQLs for the BTEX compounds have been raised by the laboratory and they are qualified "J" as estimated and are usable for limited purposes.
- J.3 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 The laboratory did not adjust the PQLs for the moisture content in project sample numbers LON-ST10-SD01, LON-ST02-S03, and LON-ST02-S04. The PQLs have been adjusted for the moisture content on the data summary forms by the reviewer.
- K.3 No other problems were observed for compound quantitation and identification.

#### L. Conclusion:

- L.1 Due to carryover contamination in sample number LON-ST10-SD04, the PQLs have been raised by the reviewer on the data summary form.
- L.2 The PQLs in some of the project samples have been adjusted for the soil moisture content on the data summary forms by the reviewer.
- L.3 Due to the large % RSDs for some of the target analytes in the initial calibrations, the detected results for these analytes in some of the project samples are qualified "J" as estimated and are usable for limited purposes.
- L.4 All other data are considered valid and usable for all purposes.

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# DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX:

Soil

DATE:

March 15, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 13 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0443). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for gasoline by USEPA Method 8015M (modified) (GC/FID) on August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST10-SD03	1028	Soil
LON-ST10-SD01	1030	Soil
LON-ST02-S03	1032	Soil
LON-SS09-SD02	1034	Soil
LON-ST02-S04	1036	Soil
LON-ST02-S05	1038	Soil
LON-ST02-S06	1040	Soil
LON-ST02-S07	1042	Soil
LON-ST02-S08	1044	Soil
LON-ST10-SD05	1046	Soil
LON-ST10-SD04	1048	Soil
LON-ST10-S01	1050	Soil :
LON-ST10-SD06	1052	Soil

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

# II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

### C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the

instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

## D. <u>Laboratory Blanks</u>:

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

# E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

## G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

### H. Surrogate Recoveries:

- H.1 The surrogate recovery in sample number LON-ST10-SD04 exceeded the QC acceptance criteria, probably due to interference from late eluting hydrocarbons present in the sample. It is the opinion of the reviewer that this will not have an adverse effect on the quality of the data.
- H.2 The surrogate QC recovery criteria were met for all other project samples and the results are considered acceptable.

# 1. Matrix Spike/Matrix Spike Duplicate Analyses:

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

## J. System Performance:

- J.1 It is the opinion of the reviewer that carryover contamination from a previous analysis was present in sample number LON-ST10-SD04. Therefore, the detected amount of gasoline has been changed to the PQL by the reviewer and is qualified "J" as estimated and is usable for limited purposes.
- J.2 The laboratory reported detected results for diesel fuel in sample numbers LON-ST10-SD01 and LON-ST02-S03. It is the opinion of the reviewer that the chromatographic pattern confirms the presence of late eluting hydrocarbons and the detected result is qualified "J" as estimated and usable for limited purposes.
- J.3 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 The laboratory did not adjust the PQL for gasoline in sample numbers LON-ST02-S03 and LON-ST02-S04 for the moisture content of the samples. The PQL for gasoline in these samples has been adjusted for the moisture content by the reviewer on the data summary forms.
- K.2 No other problems were observed with compound quantitation and identification.

# L. <u>Conclusion:</u>

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 Due to carryover contamination in sample number LON-ST10-SD04, the PQL for gasoline in this sample has been raised to the detected result reported by the laboratory.
- L.3 The PQL for gasoline in sample numbers LON-ST02-S03 and LON-ST02-S04 have been adjusted by the reviewer for the moisture content in the samples.

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#### **DATA VALIDATION REPORT**

PROGRAM:

LONELY POINT / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Water

DATE:

March 10, 1994

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received six water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 444) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 30, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST10-SW01	1054	Water
LON-ST10-SW02	1058	Water
LON-ST02-SW02	1062	Water
LON-ST02-SW03	1068	Water
LON-ST02-SW04	1072	Water
LON-ST02-SW05	10 <i>77</i>	Water

The following QC sample designations were included in project documentation: sample numbers LON-ST02-SW02 and LON-ST02-SW05 were designated as field duplicates

The quantitation limits reported by the laboratory for the water samples (1000 ppb) were higher than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This

report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

# B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a 6 point initial calibration on GC instrument ICF5 on 8/28/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 41.6% was calculated using calibration factors determined from the initial 5 point calibration. The RSD of 41.6% exceeds the recommended QC criteria of 20.0%, primarily due to the interference in the 50 ppm calibration standard which produced an artificially high calibration factor. A %RSD of 9.8 was obtained using a range of 200 ppm to 10,000 ppm. Since the initial calibration exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples are qualified "J" as estimated and usable for limited purposes.

### C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. <u>Laboratory Blanks:</u>

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

#### G. Field Duplicate Analyses:

- G.1 A QC limit for precision of  $\leq$ 20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-ST02-SW02 and LON-ST02-SW05 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable

QC criteria and the results are considered acceptable.

## H. <u>Surrogate Recoveries:</u>

H.1 The surrogate recoveries were outside the QC criteria in the following samples:

ICF Site No.	Surr. Recovery
LON-ST10-SW01	37%
LON-ST10-SW02	40%
LON-ST02-SW02	50%
LON-ST02-SW03	39%
LON-ST02-SW04	29%

All PQLs in the above samples are qualified "J" as estimated and usable for limited purposes.

H.2 All other surrogate recoveries met QC criteria and the results are considered acceptable.

#### I. Matrix Spike/Matrix Spike Duplicate:

I.1 All of the matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

## J. System Performance:

J.1 No problems with system performance were observed for all project samples.

#### K. Quantitation and Identification:

- K.1 The laboratory reported incorrect PQLs for all of the samples. The PQLs have been corrected on the data summary forms by the reviewer.
- K.2 Due to the large percent RSD in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems were observed with compound quantitation and identification.

#### L. <u>Conclusion</u>:

- L.1 Diesel was not detected in any of the project water samples at a concentration above the PQL and the results are considered acceptable.
- L.2 Surrogate recoveries were outside the acceptable QC criteria in all the sample except for sample number LON-ST02-SW05. The PQLs in the above samples are qualified "J" as estimated and usable for limited purposes.
- L.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

ANALYSIS:

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

**MATRIX:** 

Water

DATE:

April 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 4 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 444) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 30, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST02-SW02	1062	Water
LON-ST02-SW03	1068	Water
LON-ST02-SW04	1072	Water
LON-ST02-SW05	1078	Water

The following QC sample designations were included in project documentation: sample numbers LON-ST02-SW02 and LON-ST02-SW05 were designated as field duplicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration:</u>

B.1 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. <u>Instrument Blanks:</u>

E.1 PCBs were not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blanks submitted for analysis with this project sample set.

G. Field Duplicate Analyses:

- G.1 A QC limit for precision of ≤20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field duplicate comparability.
- G.2 Sample numbers LON-ST02-SW02 and LON-ST02-SW05 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

H. Surrogate Recoveries:

- H.1 The surrogate recoveries for sample number LON-ST02-SW02 was 50%, sample number LON-ST02-SW03 was 30%, and sample number LON-ST02-SW04 was 29%, which were outside the applicable QC criteria of 50%-150%. Therefore, all PQLs of the PCBs are qualified "J" as estimated and usable for limited purposes.
- H.2 All other surrogate recoveries met applicable QC criteria and the results are considered acceptable.

## I. Matrix Spike/Matrix Spike Duplicate:

- 1.1 Tap water was used as the matrix spike/matrix spike duplicate for the project water samples.
- 1.2 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

# J. System Performance:

J.1 No problems with system performance were observed for the project sample analyses.

### K. Quantitation and Identification:

- K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project water samples.
- K.2 Due to the large percent RSD in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems with compound quantitation and identification were observed for this project sample set.

#### L. Conclusion:

- L.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project water samples, and the results are considered acceptable.
- L.2 The surrogate recoveries for sample number LON-ST02-SW02 was 50%, sample number LON-ST02-SW03 was 30%, and sample number LON-ST02-SW04 was 29%, which were outside the applicable QC criteria of 50%-150%. Therefore, all PQLs for the PCBs are qualified "J" as estimated and usable for limited purposes.

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# **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Water

DATE:

March 17, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 6 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0444). Four of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and all of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	Matrix
LON-ST10-SW01	1056	Water
LON-ST10-SW02	1060	Water
LON-ST02-SW02	1064	Water
LON-ST02-SW03	1070	Water
LON-ST02-SW04	1074	Water
LON-ST02-SW05	1080	Water

The following QC sample designations were included in project documentation: sample numbers LON-ST02-SW02 and LON-ST02-SW05 were designated as field duplicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This

report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

# II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

# B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

#### C. Continuing Calibrations:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

## F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

# G. Field Duplicate Analysis:

- G.1 A QC limit for precision of  $\leq$  20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field duplicate comparability.
- G.2 Sample numbers LON-ST10-SW02 and LON-ST10-SW05 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

# H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

# I. Matrix Spike/Matrix Spike Duplicate Analyses:

- 1.1 Sample number LON-SS05-S01, which is associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

#### J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 It is the opinion of the reviewer that carryover contamination from previous analyses was present in sample numbers LON-ST10-SW01 and LON-ST10-SW02. Therefore, the PQLs for the BTEX compounds in these samples have been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- J.3 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

# L. <u>Conclusion:</u>

- L.1 Due to carryover contamination in sample numbers LON-ST10-SW01 and LON-ST10-SW02, the PQLs for the BTEX compounds have been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- L.2 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely/DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX:

Water

DATE:

March 15, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 6 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0444). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-ST10-SW01	1056	Water
LON-ST10-SW02	1060	Water
LON-ST02-SW02	1064	Water
LON-ST02-SW03	1070	Water
LON-ST02-SW04	1074	Water
LON-ST02-SW05	1080	Water

The following QC sample designations were included in project documentation: sample numbers LON-ST02-SW02 and LON-ST02-SW05 were designated as field duplicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

## II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

## C. <u>Continuing Calibrations</u>:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

#### G. Field Duplicate Analysis:

G.1 A QC limit for precision of  $\leq$  20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field duplicate comparability.

- G.2 Sample numbers LON-ST10-SW02 and LON-ST10-SW05 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.
- H. Surrogate Recoveries:

   H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.
- I. Matrix Spike/Matrix Spike Duplicate Analyses:
   I.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.
- J. System Performance:

  J.1 No problems with system performance were observed for the project samples.
- K. <u>Quantitation and Identification:</u>K.1 No problems were observed with compound quantitation and identification.
- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Water

DATE:

March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 3 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 445) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 30, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST02-SW06	1082	Water
LON-LF07-SW01	1088	Water
LON-EB-04	1098	Water

The following QC sample designations were included in project documentation: sample number LON-EB-04 was designated as an equipment blank.

The quantitation limits reported by the laboratory for the water samples (200 ppb) were lower than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

## A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.2% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 31.2% exceeds the recommended QC criteria of 20.0%. Therefore, the detected results for diesel in all the water samples are qualified "J" as estimated and usable for limited purposes.

# C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

### E. <u>Instrument Blanks:</u>

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-EB-04 was designated as an equipment blank.
- F.2 Diesel was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

#### G. Field Replicate Analyses:

G.1 There were no field replicate analyses associated with this project sample set.

#### H. Surrogate Recoveries:

- H.1 The surrogate recoveries for sample number LON-ST02-SW06 and LON-LF07-SW01 were 43% and 49%, respectively. Since these two recoveries are outside the acceptable criteria of 50%-150%, the PQLs of both samples are qualified "J" as estimated and usable for limited purposes.
- H.2 All other surrogate recoveries met QC criteria and the results are considered acceptable.

## I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used by the laboratory for the matrix spike and matrix spike duplicate analyses.
- 1.2 All QC criteria for the matrix spike/matrix spike duplicate were met and the results are considered acceptable.

# J. System Performance:

J.1 No problems with system performance were observed for all project samples.

#### K. Quantitation and Identification:

- K.1 Due to the large percent RSDs in the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.2 The laboratory reported incorrect PQLs (200 ppb) of diesel in all project samples. The lowest calibration standard that was usable was the 50 ppm, therefore, the PQLs should have been reported as 1000 ppb. The PQLs have been adjusted by the validator in the data summary forms submitted by the laboratory.
- K.3 No other problems were observed with compound quantitation and identification.

### L. Conclusion:

- L.1 Diesel was not detected in the project water samples at a concentration above the PQL.
- L.2 The PQLs of all the water samples were adjusted to 1000 ppb on the data summary form by the reviewer.
- L.3 The surrogate recoveries for sample numbers LON-ST02-SW06 and LON-LF07-SW01 were 43% and 49%, respectively. Since these two recoveries are outside the acceptable criteria of 50%-150%, the PQLs of both samples are qualified "J" as estimated and usable for limited purposes.

I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used by the laboratory for the matrix spike and matrix spike duplicate analyses.
- 1.2 All QC criteria for the matrix spike/matrix spike duplicate were met and the results are considered acceptable.

# J. System Performance:

No problems with system performance were observed for all project samples.

#### K. Quantitation and Identification:

- K.1 Due to the large percent RSDs in the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.2 The laboratory reported incorrect PQLs (200 ppb) of diesel in all project samples. The lowest calibration standard that was usable was the 50 ppm, therefore, the PQLs should have been reported as 1000 ppb. The PQLs have been adjusted by the validator in the data summary forms submitted by the laboratory.
- K.3 No other problems were observed with compound quantitation and identification.

## L. <u>Conclusion:</u>

- L.1 Diesel was not detected in the project water samples at a concentration above the PQL.
- L.2 The PQLs of all the water samples were adjusted to 1000 ppb on the data summary form by the reviewer.
- L.3 The surrogate recoveries for sample numbers LON-ST02-SW06 and LON-LF07-SW01 were 43% and 49%, respectively. Since these two recoveries are outside the acceptable criteria of 50%-150%, the PQLs of both samples are qualified "J" as estimated and usable for limited purposes.
- L.4 Due to the large percent RSDs in the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.



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#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

MATRIX:

Water

DATE:

April 10, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 3 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 445) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 30, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

<u>Lab Sample No.</u>	<u>Matrix</u>
1082	Water
1088	Water
1098	Water
	1082 1088

The following QC sample designations were included in project documentation: sample number LON-EB-04 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

#### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample

analyses.

## B. Initial Calibration:

B.1 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

# C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 PCBs were not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 Sample number LON-EB-04 was designated as an equipment blank. PCBs were not detected in the field blank at a concentration above the PQL and the results are considered acceptable.

#### G. Field Replicate Analyses:

G.1 There were no field replicate samples submitted for analysis with this project sample set.

#### H. Surrogate Recoveries:

- H.1 The surrogate recoveries for sample number LON-ST02-SW06 was 43%, and sample number LON-LF07-SW01 was 49%, which were outside the applicable QC criteria of 50%-150%. Therefore, the PQLs of the PCBs are qualified "J" as estimated and usable for limited purposes.
- H.2 All other surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used by the laboratory for the matrix spike/matrix spike duplicate analyses.
- 1.2 All QC criteria for the matrix spike/matrix spike duplicate were met and the results are considered acceptable.

J. System Performance:

J.1 No problems with system performance were observed for all project samples.

K. Quantitation and Identification:

K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project water samples.

- K.2 Due to the large percent RSD in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems were observed with compound quantitation and identification.

## L. <u>Conclusion:</u>

- L.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project water samples.
- L.2 The surrogate recoveries for sample number LON-ST02-SW06 was 43%, and sample number LON-LF07-SW01 was 49%, which were outside the applicable QC criteria of 50%-150%. Therefore, the PQLs of the PCBs in these two samples are qualified "J" as estimated and usable for limited purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

MATRIX:

Water

DATE:

March 19, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 5 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0445). All of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST02-SW06	1084	Water
LON-LF07-SW01	1090	Water
LON-TB-04	1092	Water
LON-AB-02	1094	Water
LON-EB-04	1100	Water

The following QC sample designations were included in project documentation: sample number LON-TB-04 was designated as a trip blank, sample number LON-AB-02 was designated as an ambient condition blank, and sample number LON-EB-04 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This

report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

# II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

# B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

# C. <u>Continuing Calibrations:</u>

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

## E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

- F.1 Sample number LON-EB-04 was designated as an equipment blank, sample number LON-AB-02 was designated as an ambient condition blank, and sample number LON-TB-04 was designated as a trip blank in the project documentation.
- F.2 Benzene, toluene, and ethylbenzene were detected in the equipment blank at concentrations of 2 ppb, probably due to carryover contamination from a previous analysis. The PQLs for these analytes have been raised by the reviewer to the reported detected amounts.
- F.3 No target analytes were detected in the ambient condition blank at a concentration above the PQL and the results are considered acceptable.
- F.4 The BTEX compounds were detected in the trip blank at a concentration above the PQLs, probably due to carryover contamination from a previous analysis. The PQLs for the BTEX compounds have been raised by the reviewer to the reported detected amounts of these analytes.

## G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

#### H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

- 1.1 Sample number LON-SS05-S01, which was associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

#### J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 It is the opinion of the reviewer that carryover contamination from a previous analysis was present in project sample numbers LON-LF07-SW01, LON-TB-04, and LON-EB-04. Therefore, the PQLs in these samples have been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.

J.3 No other problems with system performance were observed for the project samples.

# K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 The detected amounts of toluene and xylene in sample number LON-ST02-SW06 were outside the calibration range of the instrument and the laboratory did not perform a diluted analysis on the sample. Therefore, the detected amounts of these analytes are qualified "J" as estimated and are usable for limited purposes.
- K.3 No other problems were observed for compound quantitation and identification.

#### L. Conclusion:

- L.1 Due to the large % RSDs for benzene and xylene in the initial calibration, the detected amount of these analytes in sample number LON-ST02-SW06 are qualified "J" as estimated and are usable for limited purposes.
- L.2 Due to carryover contamination in some of the project samples, the PQLs have been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- L.3 All other data are considered valid and usable for all purposes.

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#### DATA VALIDATION REPORT

**PROGRAM:** Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Keith Strout

ANALYSIS: Gasoline by USEPA Method 8015M

MATRIX: Water

**DATE:** March 19, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 5 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0445). All of the samples required analysis for Gasoine by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for gasoline by USEPA Method 8015M (modified) (GC/FID) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-ST02-SW06	1084	Water
LON-LF07-SW01	1090	Water
LON-TB-04	1092	Water
LON-AB-02	1094	Water
LON-EB-04	1100	Water

The following QC sample designations were included in project documentation: sample number LON-TB-04 was designated as a trip blank, sample number LON-AB-02 was designated as an ambient condition blank, and sample number LON-EB-04 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the

Project Sampling and Analysis Plan.

## II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times</u>:

A.1 The technical holding time QC criteria were met for all project sample analyses.

# B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

# C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

### D. Laboratory Blanks:

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 Sample number LON-EB-04 was designated as an equipment blank, sample number LON-AB-02 was designated as an ambient condition blank, and sample number LON-TB-04 was designated as a trip blank in the project documentation.

- F.2 Gasoline was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.
- F.3 Gasoline was not detected in the ambient condition blank at a concentration above the PQL and the results are considered acceptable.
- F.4 Gasoline was not detected in the trip blank at a concentration above the PQL and the results are considered acceptable.
- G. Field Replicate Analysis:
  - G.1 There were no field replicate samples associated with this project sample set.
- H. <u>Surrogate Recoveries:</u>
  - H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.
- I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>
  - 1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.
- J. System Performance:
  - J.1 No problems with system performance were observed for the project samples.
- K. Quantitation and Identification:
  - K.1 No problems were observed with compound quantitation and identification.
- L. Conclusion:
  - L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

MATRIX:

Water and Soil

DATE:

March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 4 soil samples and 3 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 446) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 30, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-SS13-SD03	1102	Soil
LON-SS13-SD01	1104	Soil
LON-SS13-S01	1106	Soil
LON-SS13-SD02	1108	Soil
LON-SS13-SW01	1110	Water
LON-SS13-SW02	1114	Water
LON-SS13-SW03	1118	Water

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the water samples (1000 ppb) were higher than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher

than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

- B.1 The laboratory performed a 3 point initial calibration on GC instrument ICF6 on August 29, 1993. The range of the initial calibration was from 100 ppm to 10,000 ppm. Due to the sensitivity present at the 100 ppm initial calibration standard, the practical quantitation limit (PQL) of 50 ppm does not need to be raised to the low point of this initial calibration (100 ppm). All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 9.04 was calculated using calibration factors determined from the initial calibration, and is within the recommended QC limit of 20.0%. However, since only three points were used to establish the initial calibration curve, the detected results of the associated samples are qualified "J" as estimated and usable for limited purposes.
- B.2 The laboratory analyzed a 6 point initial calibration on GC instrument ICF5 on 8/28/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 41.6% was calculated using calibration factors determined from the initial 5 point calibration. The RSD of 41.6% exceeds the recommended QC criteria of 20.0%, primarily due to the interference in the 50 ppm calibration standard which produced an artificially high calibration factor. A %RSD of 9.8 was obtained using a range of 200 ppm to 10,000 ppm. Since the initial calibration exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

G. Field Replicate Analyses:

G.1 There were no field replicate samples associated with this project sample set.

H. Surrogate Recoveries:

- H.1 The surrogate recovery was 41% in sample number LON-SS13-SW01 and 50% in sample number LON-SS13-SW03, which is outside the QAPP required QC limits of 50%-150% recovery. The detected results in this sample are qualified "J" as estimated and usable for limited purposes.
- H.2 All other surrogate recoveries met QC criteria and the results are considered acceptable.

I. Matrix Spike/Matrix Spike Duplicate:

1.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. <u>System Performance:</u>

1.1 No problems with system performance were observed for all project samples.

K. Quantitation and Identification:

- K.1 Diesel was detected in sample LON-SS13-SD02 at a concentration of 190 ppm.
- K.2 Due to the large percent RSDs in the initial calibration, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 Because the laboratory only performed a three point initial calibration, the detected results for diesel in the water project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.4 The laboratory reported incorrect PQLs for all the water samples. The PQLs have been corrected on the data summary forms by the reviewer.
- K.5 The laboratory reported diesel with oil contamination in sample numbers LON-SS13-SD03 and LON-SS13-SD01 at 100 ppm and 150 ppm respectively. It is the opinion of the reviewer that diesel was not present in the samples because the

sample chromatogram did not support the diesel pattern, but did show hydrocarbon contamination. Therefore, the reported results were changed to the appropriate PQL on the data summary form by the reviewer.

K.6 No other problems were observed with compound quantitation and identification.

#### L. Conclusion:

- L.1 Diesel was detected in sample LON-SS13-SD02 at a concentrations of 190 ppm.
- L.2 Because only three points were used to establish the initial calibration curve, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.4 The PQLs for all the water sample have been changed to 1000 ppb on the data summary form by the reviewer.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** 

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

BTEX compounds by USEPA Method 8020

MATRIX:

Water and Soil

DATE:

March 30, 1995

#### I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 3 water samples and 4 soil samples from the Point Lonely site on August 29, 1993 (referenced chain of custody record No. 0446). All of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for the BTEX compounds by USEPA Method 8020 on August 28 and August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS13-SD03	1102	Soil
LON-SS13-SD01	1104	Soil
LON-SS13-S01	1106	Soil
LON-SS13-SD02	1108	Soil
LON-SS13-SW01	1112	Water
LON-SS13-SW02	1116	Water
LON-SS13-SW03	1120	Water

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document."National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

# II. VALIDITY & COMMENTS:

#### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 29, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	% RSD
toluene	26 %
ethylbenzene	53 %
m & p-xylene	41 %
o-xylene	28 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 when quantitated using the FID detector are qualified "J" as estimated and are usable for limited purposes.

#### C. <u>Continuing Calibrations:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. <u>Laboratory Blanks</u>:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

# E. <u>Instrument Blanks:</u>

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

# F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

# G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

# H. <u>Surrogate Recoveries</u>:

- H.1 The surrogate recovery for sample number LON-SS13-SD02 exceeded the QC acceptance criteria, possibly due to interference from late eluting hydrocarbons which the laboratory has identified as diesel fuel. It is the opinion of the reviewer that this will not have an adverse effect on the quality of the data.
- H.2 All other surrogate recoveries met applicable QC criteria and the results are considered acceptable.

# I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

- I.1 Sample number LON-SS05-S01, which is associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.
- I.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

# J. System Performance:

J.1 No problems with system performance were observed for the project samples.

# K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 The laboratory did not adjust the PQLs for the BTEX compounds for moisture content in sample number LON-SS13-SD01. The PQLs for these compounds in this sample have been adjusted by the reviewer on the data summary form.
- K.3 No other problems were observed for compound quantitation and identification.

### L. <u>Conclusion:</u>

- L.1 Due to late eluting hydrocarbons in sample number LON-SS13-SD02, the surrogate recovery exceeded the QC acceptance criteria. It is the opinion of the reviewer that this will not have an adverse effect on the quality of the data.
- L.2 Due to large % RSDs for some of the BTEX compounds in the initial calibrations, the detected results for these analytes in some of the project samples have been qualified "J" as estimated and are usable for limited purposes.
- L.3 The PQLs for the BTEX compounds in sample number LON-SS13-SD01 have been properly adjusted by the reviewer for the moisture content in the sample.
- L.4 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX: DATE: Water and Soil March 30, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 3 water samples and 4 soil samples from the Point Lonely site on August 29, 1993 (referenced chain of custody record No. 0446). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 28 and August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS13-SD03	1102	Soil
LON-SS13-SD01	1104	Soil
LON-SS13-S01	1106	Soil
LON-SS13-SD02	1108	Soil
LON-SS13-SW01	1112	Water
LON-SS13-SW02	1116	Water
LON-SS13-SW03	1120	Water

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional

# L. <u>Conclusion:</u>

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 The PQL for gasoline in sample number LON-SS13-SD01 has been properly adjusted for the moisture content of the sample by the reviewer on the data summary form.
- L.3 Due to the presence of late eluting hydrocarbons in sample number LON-SS13-SD02, the detected result has been qualified "J" as estimated and is usable for limited purposes.

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# **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Soil

DATE:

March 10, 1995

# I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (Seattle, WA) received 13 soil samples from the Point Lonely site on September 4, 1993 (referenced chain of custody record No. 483) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on September 9, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-SS01-2S16-1	1780	Soil
LON-SS01-2S17-1	1 <i>7</i> 81	Soil
LON-SS01-2S18-1	1782	Soil
LON-SS01-2S19	1783	Soil
LON-SS01-2S20	1784	Soil
LON-SS01-2S21-1.5	1786	Soil
LON-SS05-2S19-3	1787	Soil
LON-SS05-2SD09	1788	Soil
LON-SS05-2SD10	1789	Soil
LON-SS05-2SD11	1790	Soil
LON-SS05-2SD12	1791	Soil
LON-SS05-2SD13	1792	Soil
LON-SS05-2SD14	1793	Soil

The analytical results for the soil samples were reported with an adjustment for moisture content.

Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

#### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. <u>Instrument Blanks:</u>

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

### G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

#### H. Surrogate Recoveries:

- H.1 The surrogate recovery in sample number LON-SS13-SD02 exceeded the QC acceptance criteria, possibly due to interference from late eluting hydrocarbons which the laboratory has identified as diesel fuel. It is the opinion of the reviewer that this will not have an adverse effect on the quality of the data.
- H.2 The surrogate QC recovery criteria were met for all other project samples and the results are considered acceptable.

#### I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

#### J. System Performance:

J.1 No problems with system performance were observed for the project samples.

#### K. Quantitation and Identification:

- K.1 The laboratory did not adjust the PQL for gasoline for moisture content in sample number LON-SS13-SD01. The PQL for gasoline in this sample has been properly adjusted for moisture content on the data summary form by the reviewer.
- K.2 The laboratory reported a detected result in sample number LON-SS13-SD02 and identified it as diesel fuel. It is the opinion of the reviewer that the chromatographic pattern confirms the presence of late eluting hydrocarbons, therefore, the detected result has been qualified "J" as estimated and is usable for limited purposes.
- K.3 No other problems were observed with compound quantitation and identification.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF6 on 9/2/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 28.0% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 28.0% exceeds the recommended QC criteria of 20.0% Since the initial calibration exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples associated with this initial calibration are qualified "J" as estimated and usable for limited purposes. Note that if height instead of area responses are used to calculate calibration factors, the initial calibration %RSD criteria are acceptable. Also note that if the low point of the calibration curve is disregarded, the %RSD of the 5 point curve becomes 12.8%, which is acceptable.

#### C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

G. Field Replicate Analyses:

G.1 There were no field replicate samples associated with this project sample set.

H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate</u>:

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. <u>System Performance</u>:

1.1 No problems with system performance were observed for all project samples.

K. Quantitation and Identification:

K.1 The laboratory reported diesel in sample numbers LON-SS01-2S19, LON-SS05-2SD13, and LON-SS05-2SD14 at concentrations of 7500 ppm, 140 ppm and 310 ppm, respectively. It is the opinion of the reviewer that the correct diesel concentrations in sample numbers LON-SS01-2S19, LON-SS05-2SD13 and LON-SS05-2SD14 should be 6600 ppm, 80 ppm, and 220 ppm respectively.

- K.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 The laboratory reported incorrect PQLs for sample numbers LON-SS01-2S21-1.5, LON-SS05-2S19-3 and LON-SS05-2SD12. The PQLs have been corrected on the data summary forms by the reviewer.
- K.4 No other problems were observed with compound quantitation and identification.

L. <u>Conclusion:</u>

- L.1 Diesel was detected sample numbers LON-SS01-2S19, LON-SS05-2SD13 and LON-SS05-2SD14 at concentrations of 6600 ppm, 80 ppm, and 220 ppm, respectively.
- L.2 The PQLs for sample numbers LON-SS01-2S21-1.5, LON-SS05-2S19-3 and LON-SS05-2SD12 were adjusted on the data summary form by the reviewer.
- L.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

ANALYSIS:

BTEX compounds by USEPA Method 8020

**MATRIX:** 

Soil

DATE:

March 31, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 13 soil samples from the Point Lonely site on September 4, 1993 (referenced chain of custody record No. 0483). One of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the sample for the BTEX compounds by USEPA Method 8020 on September 7, 1993.

The ICF site identification number and corresponding FBI laboratory sample identification number for the sample requiring BTEX analysis are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS01-2S21-1.5	1786	Soil

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil sample were reported with an adjustment for moisture content.

# II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	<u>% RSD</u>
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

# C. <u>Continuing Calibrations:</u>

C.1 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

#### E. <u>Instrument Blanks:</u>

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

#### G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

#### H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### I. Matrix Spike/Matrix Spike Duplicate Analyses:

I.1 Sample number BUL-AOC11-2S06, which is associated with a different

project sample set from a different DEW Line site, was used for the matrix spike/matrix spike duplicate analyses.

1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

# J. System Performance:

J.1 No problems with system performance were observed for the project samples.

# K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

#### L. Conclusion:

- L.1 There were no target analytes detected at a concentration above the PQLs in the project sample.
- L.2 All data are considered valid and usable for all purposes.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

ANALYSIS:

Gasoline by USEPA Method 8015M

**MATRIX:** 

Soil

DATE:

March 31, 1995

#### I. **INTRODUCTION:**

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 13 soil samples from the Point Lonely site on September 4, 1993 (referenced chain of custody record No. 0483). One of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the sample for Gasoline by USEPA Method 8015M (modified) (GC/FID) on September 7, 1993.

The ICF site identification number and corresponding FBI laboratory sample identification number for the sample requiring gasoline analysis are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS01-2S21-1.5	1786	Soil

The analytical results for the soil sample was reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as

required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

#### II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

C. Continuing Calibrations:

- C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.
- C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 Gasoline was not detected in the method blanks at a concentration above the POL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

G. <u>Field Replicate Analysis:</u>

G.1 There were no field replicate samples associated with this project sample set.

H. <u>Surrogate Recoveries:</u>

H.1 The surrogate QC recovery criteria were met for the project sample and the result is considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

J. System Performance:

J.1 No problems with system performance were observed for the project samples.

K. Quantitation and Identification:

K.1 No problems were observed with compound quantitation and identification.

L. <u>Conclusion:</u>

L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the PQL for gasoline in the project sample and blanks are qualified "J" as estimated and usable for limited purposes.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

MATRIX:

Water and Soil

DATE:

March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 7 soil samples and 1 water sample from the Point Lonely site on September 4, 1993 (referenced chain of custody record No. 482) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on September 8, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS04-2SD03	1795	Soil
LON-EB-05	1796	Water
LON-ST02-2S09-1.5	1800	Soil
LON-ST02-2S10-1	1802	Soil
LON-ST02-2S11-1	1804	Soil
LON-SS03-2S06	1806	Soil
LON-SS03-2S07	1808	Soil

Sample LON-SS04-2S03 was listed on the chain-of-custody, but was not reported by the laboratory.

The following sample designations were included in project documentation: sample numbers LON-2SS03-2S06 and LON-SS03-2S07 were designated as field replicates, and sample number LON-EB-08 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF6 on 9/2/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 28.0% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 28.0% exceeds the recommended QC criteria of 20.0% Since the initial calibration exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples associated with this initial calibration are qualified "J" as estimated and usable for limited purposes. Note that if height instead of area responses are used to calculate calibration factors, the initial calibration %RSD criteria are acceptable. Also note that if the low point of the calibration curve is disregarded, the %RSD of the 5 point curve becomes 12.8%, which is acceptable.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 Sample number LON-EB-05 was designated as an equipment blank.

F.2 Diesel was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

# G. Field Replicate Analyses:

- G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS03-2S06 and LON-SS03-2S07 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

### 1. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- I.1 Sample BUL-0T04-2S06, which is not part of this project sample set, was analyzed as the soil matrix spike/matrix spike duplicate for chain of custody 570.
- 1.2 All of the matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

### J. System Performance:

J.1 No problems with system performance were observed for all project samples.

#### K. Quantitation and Identification:

- K.1 The laboratory reported diesel in sample number LON-2T02-2S06 and LON-2T02-2S07 at concentrations of 40,000 ppm and 45,000 ppm, respectively. The reviewer calculated the results to be 15,200 ppm and 13,700 ppm, respectively. The results have been corrected on the data summary forms by the reviewer.
- K.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 The laboratory reported incorrect PQLs for sample numbers LON-2T02-2S10-1 and LON-2T02-2S11-1. The PQLs have been corrected on the data summary forms by the reviewer.
- K.4 The laboratory incorrectly reported sample numbers LON-SS03-2S06 and LON-SS03-2S07 as LON-2T02-2S06 and LON-2T02-2S07, respectively, on the data summary form. They have been corrected by the reviewer.
- K.5 No other problems were observed with compound quantitation and identification.

## L. <u>Conclusion:</u>

- L.1 Diesel was detected in sample numbers LON-2T02-2S06 at a concentration of 15,200 ppm and in LON-2T02-2S07 at a concentration of 13,700 ppm.
- L.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.3 The PQLs for sample numbers LON-2T02-2S10-1 and LON-2T02-2S11-1 were corrected on the data summary form by the reviewer.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Water and Soil

DATE:

March 31, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 1 water sample and 7 soil samples from the Point Lonely site on September 4, 1993 (referenced chain of custody record No. 0482). The water sample required analysis for the halogenated volatile organic compounds (HVOCs), and the water and five of the soil samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on September 7, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-EB-05	1798	Water
LON-ST02-2S09-1.5	1800	Soil
LON-ST02-2S10-01	1802	Soil
LON-ST02-2S11-01	1804	Soil
LON-SS03-2S06	1806	Soil
LON-SS03-2S07	1808	Soil

The following QC sample designations were included in project documentation: sample numbers LON-SS03-2S06 and LON-SS03-2S07 were designated as field replicates and sample number LON-EB-05 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

# B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	<u>% RSD</u>
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

# C. <u>Continuing Calibrations:</u>

C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is

saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.

C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. Laboratory Blanks:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

### E. <u>Instrument Blanks:</u>

E.1 No target analytes were detected in the instrument blanks at a concentration above the POL and the results are considered acceptable.

### F. Field Blanks:

- F.1 Sample number LON-EB-05 was designated as an equipment blank in the project documentation.
- F.2 No target analytes were detected in the equipment blank at a concentration above the PQLs and the results are considered acceptable.

### G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS03-2S06 and LON-SS03-2S07 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### I. Matrix Spike/Matrix Spike Duplicate Analyses:

- 1.1 Sample number BUL-AOC11-2S06, which is associated with a different project sample set from a different site, was used for the soil matrix spike/matrix spike duplicate analyses, and method blank water was used for the water matrix spike/matrix spike duplicate analyses.
- 1.2 All of the soil matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.
- 1.3 All of the water matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

### J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 The laboratory raised the PQLs in sample number LON-ST02-2S11-1 because of possible carryover contamination from a previous analysis. It is the opinion of the reviewer that carryover contamination was present in this sample, therefore, the PQLs are qualified "J" as estimated and are usable for limited purposes.
- J.3 No other problems with system performance were observed for the project samples.

### K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

#### L. Conclusion:

- L.1 Due to possible carryover contamination in sample number LON-ST02-2S11-1, the PQLs for the target analytes were raised by the laboratory and the PQLs are qualified "J" as estimated and are usable for limited purposes.
- L.2 Due to the large % RSDs for some of the target analytes in the initial calibration, the detected results for these analytes in some of the project samples are qualified "J" as estimated and are usable for limited purposes.
- L.3 The laboratory mislabeled some of the project samples on the data summary forms. The correct sample numbers have been entered on the data summary forms by the reviewer.
- L.4 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX:

Water and Soil

DATE:

March 31, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 1 water sample and 7 soil samples from the Point Lonely site on September 4, 1993 (referenced chain of custody record No. 0482). The water sample and five of the soil samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on September 7, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-EB-05	1798	Water
LON-ST02-2S09-1.5	1800	Soil
LON-ST02-2S10-01	1802	Soil
LON-ST02-2S11-01	1804	Soil
LON-SS03-2S06	1806	Soil
LON-SS03-2S07	1808	Soil

The following QC sample designations were included in project documentation: sample numbers LON-SS03-2S06 and LON-SS03-2S07 were designated as field replicates and sample number LON-EB-05 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

## C. <u>Continuing Calibrations</u>:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

#### D. <u>Laboratory Blanks</u>:

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. <u>Instrument Blanks:</u>

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-EB-05 was designated as an equipment blank in the project documentation.
- F.2 Gasoline was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

## G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples LON-SS03-2S06 and LON-SS03-2S07 were utilized for field replicate analysis. The laboratory reported detected results in both of the samples and indicated that the detected results are due to diesel fuel. It is the opinion of the reviewer that the detected results are due to late eluting hydrocarbons and gasoline is not present in the samples. Since there is no gasoline present in the samples, the results of the field replicate analyses are considered acceptable.

# H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

### I. Matrix Spike/Matrix Spike Duplicate Analyses:

I.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

#### J. System Performance:

- J.1 The laboratory reported a detected result for gasoline in sample number LON-ST02-2S09-1.5 and indicated that the detected result is due to carryover contamination. It is the opinion of the reviewer that the detected result is due to carryover, therefore, the PQL for gasoline has been raised by the reviewer and is qualified "J" as estimated and usable for limited purposes.
- J.2 No other problems with system performance were observed for the project samples.

#### K. Quantitation and Identification:

K.1 The laboratory reported detected results in sample numbers LON-ST02-2S11-1, LON-SS02-2S06, and LON-SS02-2S07, and indicated that the detected results are due to the presence of diesel fuel. It is the opinion of the reviewer that late eluting hydrocarbons are present in these samples and the detected results for gasoline are qualified "J" as estimated and are usable for limited purposes.

K.2 No other problems were observed with compound quantitation and identification.

# L. <u>Conclusion:</u>

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 Due to the presence of late eluting hydrocarbons in some of the project samples, the detected results for gasoline are qualified "J" as estimated and are usable for limited purposes.
- L.3 Due to carryover contamination in sample number LON-ST02-2S09-1.5, the PQL for gasoline in this sample has been raised by the reviewer and is qualified "J" as estimated and is usable for limited purposes.

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# **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

MATRIX:

Water

DATE:

March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 1 water sample from the Point Lonely site on September 8, 1993 (referenced chain of custody record No. 588) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The sample was analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on September 10, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.Lab Sample No.MatrixLON-W011906Water

The quantitation limits reported by the laboratory for the water samples (200 ppb) were lower than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

# II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample

analyses.

# B. <u>Initial Calibration</u>:

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF6 on 9/2/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 28.0% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 28.0% exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples associated with this initial calibration are qualified "J" as estimated and usable for limited purposes. Note that if height instead of area responses are used to calculate calibration factors, the initial calibration %RSD criteria are acceptable. Also note that if the low point of the calibration curve is disregarded, the %RSD of the 5 point curve becomes 12.8%, which is acceptable.

### C. <u>Continuing Calibration</u>:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. <u>Laboratory Blanks:</u>

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blank at concentrations above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

#### G. Field Replicate Analyses:

G.1 There were no field replicate samples associated with this project sample set.

#### H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

#### I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used by the laboratory for the matrix spike/matrix spike duplicate samples.
- 1.2 All of the matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. System Performance:

J.1 No problems with system performance were observed for all project samples.

K. Quantitation and Identification:

- K.1 Sample number LON-W01 displayed hydrocarbon contamination, but at a level below the PQL.
- k.2 Due to the large percent RSD in the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems were observed with compound quantitation and identification.

L. <u>Conclusion:</u>

- L.1 Diesel was not detected in the project water sample at a concentration above the PQL and the results are considered acceptable.
- L.2 Due to the large percent RSD in the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.



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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Soil and Water

DATE:

March 10, 1994

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 11 soil samples and 1 water sample from the Point Lonely site on September 5, 1993 (referenced chain of custody record No. 486) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on September 10, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS09-2S04	1756	Soil
LON-SS09-2S06	1758	Soil
LON-SS09-2S07	1760	Soil
LON-SS12-2SW02	1761	Water
LON-SS12-2S04	1762	Soil
LON-SS12-2SD02	1763	Soil
LON-SS13-2SD04	1764	Soil
LON-SS13-2SD05	1 <i>7</i> 65	Soil
LON-SS13-2SD06	1766	Soil
LON-ST10-2SD02	1767	Soil
LON-ST10-2SD08	1768	Soil
LON-ST10-2SD09	1770	Soil

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The quantitation limits reported by the laboratory for the water samples (1000 ppb) were higher than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF6 on 9/2/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 28.0% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 28.0% exceeds the recommended QC criteria of 20.0% Since the initial calibration exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples associated with this initial calibration are qualified "J" as estimated and usable for limited purposes. Note that if height instead of area responses are used to calculate calibration factors, the initial calibration %RSD criteria are acceptable. Also note that if the low point of the calibration curve is disregarded, the %RSD of the 5 point curve becomes 12.8%, which is acceptable.

B.2 The laboratory analyzed a 6 point initial calibration on GC instrument ICF5 on 8/28/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 41.6% was calculated using calibration factors determined from the initial 5 point calibration. The RSD of 41.6% exceeds the recommended QC criteria of 20.0%, primarily due to the interference in the 50 ppm calibration standard which produced an artificially high calibration factor. A %RSD

of 9.8 was obtained using a range of 200 ppm to 10,000 ppm. Since the initial calibration exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples are qualified "J" as estimated and usable for limited purposes.

C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. <u>Laboratory Blanks:</u>

D.1 Diesel was not detected in the method blanks at a concentration above the POL and the results are considered acceptable.

E. <u>Instrument Blanks:</u>

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

G. Field Replicate Analyses:

G.1 There were no field replicate samples associated with this project sample set.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. System Performance:

1.1 No problems with system performance were observed for all project samples.

K. Quantitation and Identification:

- K.1 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.2 The laboratory reported incorrect PQLs for sample numbers LON-SS13-2SD04, LON-SS13-2SD05 and LON-ST10-2SD09. The PQLs have been corrected on the data summary forms by the reviewer.
- K.3 No other problems were observed with compound quantitation and identification.

L. Conclusion:

L.1 Diesel was not detected in any of the project soil and water samples at a

concentration above the PQL, and the results are considered acceptable.

L.2 The PQLs for sample numbers LON-SS13-2SD04, LON-SS13-2SD05 and LON-ST10-2SD09 were corrected on the data summary forms by the reviewer.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Soil

DATE:

March 31, 1995

### I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 1 water sample and 10 soil samples from the Point Lonely site on September 5, 1993 (referenced chain of custody record No. 0486). Three of the soil samples required analysis for the halogenated volatile organic compounds (HVOCs) and the BTEX compounds, and one of the soil sample required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on September 7, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers for the samples which required analysis are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS09-2S04	1756	Soil
LON-SS09-2S06	1758	Soil
LON-SS09-2S07	1760	Soil
LON-ST10-2SD09	1 <i>77</i> 0	Soil

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	<u>% RSD</u>
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

C. Continuing Calibrations:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

I. Matrix Spike/Matrix Spike Duplicate Analyses:

- 1.1 Sample number BUL-AOC11-2S06, which is associated with a different project sample set from a different DEW Line site, was used for the matrix spike/matrix spike duplicate analyses.
- I.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 No other problems with system performance were observed for the project samples.

K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

L. Conclusion:

- L.1 There were no target analytes detected at a concentration above the PQLs in any of the project samples.
- L.2 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

Gasoline by USEPA Method 8015M

MATRIX:

Soil

DATE:

March 31, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 1 water sample and 10 soil samples from the Point Lonely site on September 5, 1993 (referenced chain of custody record No. 0486). Four of the soil samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on September 7, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers for the samples which required analysis are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS09-2S04	1756	Soil
LON-SS09-2S06	1 <i>7</i> 58	Soil
LON-SS09-2S07	1760	Soil
LON-ST10-2SD09	1770	Soil

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document. National Functional Guidelines for Organic Data Review (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

## II. VALIDITY & COMMENTS:

### A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. <u>Initial Calibration</u>:

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

# C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

- G. Field Replicate Analysis:
  - G.1 There were no field replicate samples associated with this project sample set.
- H. Surrogate Recoveries:
  - H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.
- I. Matrix Spike/Matrix Spike Duplicate Analyses:
  - 1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.
- J. System Performance:
  - J.1 No problems with system performance were observed for the project samples.
- K. Quantitation and Identification:
  - K.1 No problems were observed with compound quantitation and identification.
- L. Conclusion:
  - L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY/ DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

MATRIX:

Water and Soil

DATE:

March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 5 soil samples and 1 water sample from the Point Lonely site on September 5, 1993 (referenced chain of custody record No. 487) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on September 10, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST10-2S05	1771	Soil
LON-ST10-2S03	1772	Soil
LON-ST10-2SD03	1773	Soil
LON-EB-08	1774	Water
LON-LF07-2S08	1778	Soil
LON-LF07-2S09	1779	Soil

The following sample designations were included in project documentation: sample numbers LON-EB-08 was designated as an equipment blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

- B.1 The laboratory performed a 3 point initial calibration on GC instrument ICF6 on September 9, 1993. The range of the initial calibration was from 100 ppm to 10,000 ppm. Due to the sensitivity present at the 100 ppm initial calibration standard, the practical quantitation limit (PQL) of 50 ppm does not need to be raised to the low point of this initial calibration (100 ppm). A percent relative standard deviation (%RSD) of 44.5% was calculated using calibration factors determined from the initial calibration. The laboratory did not correctly quantitate the three initial calibration standards, causing the high percent RSD. Since only three points were used to establish the initial calibration curve, and the %RSD is outside the QC criteria, all detected results are qualified "J" as estimated and usable for limited purposes.
- B.2 The laboratory analyzed a 6 point initial calibration on GC instrument ICF5 on 8/28/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 41.6% was calculated using calibration factors determined from the initial 5 point calibration. The RSD of 41.6% exceeds the recommended QC criteria of 20.0%, primarily due to the interference in the 50 ppm calibration standard which produced an artificially high calibration factor. A %RSD of 9.8 was obtained using a range of 200 ppm to 10,000 ppm. Since the initial calibration exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

- C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.
- D. Laboratory Blanks:

  D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

### F. Field Blanks:

- F.1 Sample number LON-EB-08 was designated as an equipment blank.
- F.2 Diesel was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.
- G. <u>Field Replicate Analyses:</u>
  - G.1 There were no field blank analyses associated with this project sample set.
- H. <u>Surrogate Recoveries:</u>
  - H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.
- I. <u>Matrix Spike/Matrix Spike Duplicate:</u>
  - 1.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.
- J. <u>System Performance</u>:
  - J.1 No problems with system performance were observed for all project samples.
- K. Quantitation and Identification:
  - K.1 The laboratory reported an incorrect PQL for sample number LON-ST10-2S03. The PQL has been corrected on the data summary form by the reviewer.
  - K.2 No other problems were observed with compound quantitation and identification.
- L. Conclusion:
  - L.1 Diesel was not detected in any of the project water and soil samples at a concentration above the PQL and the results are considered acceptable.
  - L.2 The PQL for sample number LON-ST10-2S03 has been corrected on the data summary form by the reviewer.

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#### DATA VALIDATION REPORT

**PROGRAM:** 

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Water

DATE:

March 31, 1995

#### I. <u>INTRODUCTION</u>:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 1 water sample and 4 soil samples from the Point Lonely site on September 9, 1993 (referenced chain of custody record No. 0487). Only the water sample required analysis for the halogenated volatile organic compounds (HVOCs) and the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the sample for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on September 9, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.

Lab Sample No.

Matrix

LON-EB-08

1776

Water

The following QC sample designation was included in project documentation: sample number LON-EB-08 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times</u>:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration</u>:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	<u>% RSD</u>
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

C. Continuing Calibrations:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.
- D. Laboratory Blanks:
  - D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.
- E. Instrument Blanks:
  - E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-EB-08 was designated as an equipment blank in the project documentation.
- F.2 No target analytes were detected in the equipment blank at a concentration above the PQLs and the results are considered acceptable.

### G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

#### H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

# I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

- I.1 Method blank water was used for the water matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

#### J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 No other problems with system performance were observed for the project samples.

### K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

#### L. <u>Conclusion:</u>

L.1 There were no target analytes detected at a concentration above the PQLs in the project sample.

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L.2 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

**MATRIX:** 

Water

DATE:

March 31, 1995

#### I. **INTRODUCTION:**

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 1 water sample and 4 soil samples from the Point Lonely site on September 9, 1993 (referenced chain of custody record No. 0487). Only the water sample required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the sample for Gasoline by USEPA Method 8015M (modified) (GC/FID) on September 9, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.

Lab Sample No.

**Matrix** 

LON-EB-08

Water

The following QC sample designation was included in project documentation: sample number LON-EB-08 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

#### C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

### D. Laboratory Blanks:

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-EB-08 was designated as an equipment blank in the project documentation.
- F.2 Gasoline was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

H. <u>Surrogate Recoveries:</u>

H.1 The surrogate QC recovery criteria were met for all project sample analyses and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

J. System Performance:

J.1 No problems with system performance were observed for the project samples.

K. Quantitation and Identification:

K.1 No problems were observed with compound quantitation and identification.

L. <u>Conclusion:</u>

L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the PQL for gasoline in the project sample and blanks are qualified "J" as estimated and usable for limited purposes.

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Water

DATE:

March 10, 1994

### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 7 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 420) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS01-SW01	917	Water
LON-SS01-SW02	921	Water
LON-SS01-SW03	925	Water
LON-SS01-SW04	929	Water
LON-SS01-SW05	933	Water
LON-SS01-SW06	937	Water
LON-EB03	942	Water

The following QC sample designations were included in project documentation: sample numbers LON-SS01-SW01 and LON-SS01-SW06 were designated as field duplicates, and sample number LON-EB03 was designated as an equipment blank.

The quantitation limits reported by the laboratory for the water samples (200 ppb) were lower than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.2% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 31.2% exceeds the recommended QC criteria of 20.0%. Therefore, the detected results for diesel in all the water samples are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

- F.1 Sample number LON-EB-03 was designated as an equipment blank.
- F.2 Diesel was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

G. Field Duplicate Analyses:

- G.1 A QC limit for precision of ≤20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field duplicate comparability.
- G.2 Sample numbers LON-SS01-SW01 and LON-SS01-SW06 were utilized for

field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

### I. <u>Matrix Spike/Matrix Spike Duplicate</u>:

1.1 Tap water was used by the laboratory for the matrix spike and matrix spike duplicate analyses. The percent recovery for the MS was 43% and the percent recovery for the MSD was 35%, both outside the QC criteria of 50-150%. It is not known what effect this will have on the quality of the data.

### J. <u>System Performance:</u>

J.1 No problems with system performance were observed for all project samples.

### K. Quantitation and Identification:

- K.1 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.2 The laboratory reported incorrect PQLs (200 ppb) of diesel in all project samples. The lowest calibration standard that was usable was the 50 ppm, therefore, the PQLs should have been reported as 1000 ppb. The PQLs have been adjusted by the validator in the data summary forms submitted by the laboratory.
- K.3 No other problems were observed with compound quantitation and identification.

#### L. Conclusion:

- L.1 Diesel was not detected in the project water samples at a concentration above the PQL.
- L.2 The PQLs of all the water samples were corrected on the data summary forms by the reviewer.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

**MATRIX:** 

Water

DATE:

April 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 1 water sample from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 420) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The sample was analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No. LON-EB-03 Lab Sample No. 942

<u>Matrix</u> Water

The following set of QC sample designations were included in project documentation: sample number LON-EB-03 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

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B. <u>Initial Calibration</u>:

B.1 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. <u>Laboratory Blanks:</u>

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 PCBs were not detected in the instrument blank at a concentration above the PQL and the results are considered acceptable.

F. <u>Field Blanks:</u>

- F.1 Sample number LON-EB-03 was submitted as an equipment blank for this project sample set.
- F.2 PCBs were not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

G. Field Replicate Analyses:

G.1 There were no field replicate samples submitted for PCB analysis with this project sample set.

H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- I.1 Tap water was used by the laboratory for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. <u>System Performance</u>:

J.1 No problems with system performance were observed for the project sample analyses.

### K. Quantitation and Identification:

- K.1 PCBs were not detected at concentrations above the PQL of the PCBs in sample number LON-EB-03.
- K.2 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems with compound quantitation and identification were observed for this project sample set.

### L. <u>Conclusion:</u>

L1. PCBs were not detected at concentrations above the PQL of the PCBs in sample number LON-EB-03, and the results are considered acceptable.

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#### DATA VALIDATION REPORT

**PROGRAM:** Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Keith Strout

ANALYSIS: HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

MATRIX: Water

**DATE:** March 12, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 7 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0420). One of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and all of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS01-SW01	918	Water
LON-SS01-SW02	922	Water
LON-SS01-SW03	928	Water
LON-SS01-SW04	932	Water
LON-SS01-SW05	936	Water
LON-SS01-SW06	940	Water
LON-EB-03	944	Water

The laboratory did not report any results for sample number LON-SS01-SW05. The following QC sample designations were included in project documentation: sample numbers LON-SS01-SW01 and LON-SS01-SW06 were designated as field duplicates and sample number LON-EB-03 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

# B. <u>Initial Calibration</u>:

B.1 The laboratory analyzed a five point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	<u>% RSD</u>
ethylbenzene	23.2 %
m & p-xylene	22.6 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

### C. <u>Continuing Calibrations</u>:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration

above the practical quantitation limit (PQL) and the results are considered acceptable.

# E. <u>Instrument Blanks:</u>

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-EB-03 was designated as an equipment blank.
- F.2 No target analytes were detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

G. Field Duplicate Analysis:

- G.1 A QC limit for precision of  $\leq$  20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field duplicate comparability.
- G.2 Samples LON-SS01-SW01 and LON-SS01-SW06 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

I. Matrix Spike/Matrix Spike Duplicate Analyses:

- I.1 Sample number LON-LF07-S05, which is a soil associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses. The laboratory did not submit results for water matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 No other problems with system performance were observed for the project samples.

K. Quantitation and Identification:

K.1 Compound identification was confirmed using a second column and an alternate detector.

K.2 No other problems were observed for compound quantitation and identification.

### L. <u>Conclusion:</u>

- L.1 Due to the large % RSD for some of the analytes in the initial calibration, the detected results for these analytes are qualified "J" as estimated and are usable for limited purposes.
- L.2 The laboratory did not report the results for sample number LON-SS01-SW05.
- L.3 All other data are considered valid and usable for all purposes.

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#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

Gasoline by USEPA Method 8015M

**MATRIX:** 

Water and Soil

DATE:

March 29, 1995

#### i. **INTRODUCTION:**

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 7 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0420). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS01-SW01	918	Water
LON-SS01-SW02	922	Water
LON-SS01-SW03	928	Water
LON-SS01-SW04	932	Water
LON-SS01-SW05	936	Water
LON-SS01-SW06	940	Water
LON-EB-03	944	Water

The laboratory did not report any results for sample number LON-SS01-SW05. The following QC sample designations were included in project documentation: sample numbers LON-SS01-SW01 and LON-SS01-SW06 were designated as field duplicates and sample number LON-EB-03 was designated as an equipment blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

## C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 Sample number LON-EB-03 was designated as an equipment blank.

F.2 Gasoline was not detected in the equipment blank at a concentration above the PQL and the results are considered acceptable.

G. Field Duplicate Analysis:

- G.1 A QC limit for precision of  $\leq$  20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field duplicate comparability.
- G.2 Samples LON-SS01-SW01 and LON-SS01-SW06 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

H. Surrogate Recoveries:

- H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.
- I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>
   I.1 The laboratory did not perform any matrix spike/matrix spike duplicate
- analyses for the gasoline fraction.

  J. System Performance:
  - J.1 No problems with system performance were observed for the project samples.
- K. Quantitation and Identification:K.1 No problems were observed with compound quantitation and identification.
- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.



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#### **DATA VALIDATION REPORT**

PROGRAM: POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Timothy Vonnahme

ANALYSIS: Diesel by EPA Method 8015M

MATRIX: Water and soil March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 3 water samples and 3 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 421) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-LF11-SW01	892	Water
LON-LF11-SW02	896	Water
LON-LF11-SW03	902	Water
LON-LF07-S05	910	Soil
LON-LF07-S06	912	Soil
LON-LF07-S02	914	Soil

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the water samples (200 ppb) were lower than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher

than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

- B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.2% was calculated using calibration factors determined from the initial 6 point calibration. The %RSD of 31.2% exceeds the recommended QC criteria of 20.0%. Therefore, the detected results for diesel in all the water samples are qualified "J" as estimated and usable for limited purposes.
- B.2 The laboratory attempted to perform a 6 point initial calibration curve on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 50 ppm to 10,000 ppm. The 500 ppm and the 200 ppm standards were not used due to autosampler injection errors. A percent relative standard deviation (%RSD) of 48.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 48.3% exceeds the recommended QC criteria of 20.0%. Since the initial calibration was only a 4 point calibration curve, and the %RSD exceeds the recommended criteria, the detected results for diesel in all the soil samples are qualified "J" as estimated and usable for limited purposes.

C. Continuing Calibration:

- C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.
- D. <u>Laboratory Blanks:</u>
  - D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.
- E. Instrument Blanks:
  - E.1 Diesel was not detected in the instrument blanks at concentrations above the

PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

### G. Field Replicate Analyses:

G.1 There were no field replicate analyses associated with this project sample set.

### H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

### I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used by the laboratory for the matrix spike/matrix spike duplicate analyses. The percent recovery for the MS was 43% and the percent recovery for the MSD was 35%, both outside the QC criteria of 50-150%. It is not know what effect this will have on the data.
- 1.2 All of the soil matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

#### J. System Performance:

J.1 No problems with system performance were observed for all project samples.

#### K. Quantitation and Identification:

- K.1 The laboratory reported diesel in sample LON-LF07-S06 at a concentration of 270 ppm. It is the opinion of the reviewer that lube oil is also present in the sample with the diesel. Therefore, the result is qualified "J" as estimated and usable for limited purposes.
- K.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 The laboratory reported incorrect PQLs for the three water samples. The PQLs have been corrected on the data summary forms by the reviewer.
- K.4 No other problems were observed with compound quantitation and identification.

### L. Conclusion:

- L.1 Due to lube oil contamination, the diesel concentration of 270 ppm in sample number LON-LF07-S06 was qualified "J" as estimated and usable for limited purposes.
- L.2 The PQLs of the three water samples were corrected to 1000 ppb on the data summary forms by the reviewer.

L.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

**ANALYSIS:** 

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

MATRIX:

Soil and Water

DATE:

April 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 3 water samples and 3 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 421) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-LF11-SW01	892	Water
LON-LF11-SW02	896	Water
LON-LF11-SW03	902	Water
LON-LF07-SO5	910	Soil
LON-LF07-S06	912	Soil
LON-LF07-S02	914	Soil

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

- B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 30.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 30.3 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.
- B.2 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

# C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks</u>:

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 PCBs were not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks submitted for analysis with this project sample set.

#### G. <u>Field Replicate Analyses:</u>

G.1 There were no field replicate samples submitted for analysis with this project sample set.

### H. Surrogate Recoveries:

- H.1 The surrogate recovery for sample number LON-LF11-SW01 was 36%, which is outside the applicable QC criteria of 50%-150%. Therefore, the PQLs are qualified "J" as estimated and usable for limited purposes.
- H.2 All other surrogate recoveries met applicable QC criteria and the results are

considered acceptable.

# 1. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- 1.1 Tap water was used for the water matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

### J. <u>System Performance:</u>

J.1 No problems with system performance were observed for the project sample analyses.

### K. Quantitation and Identification:

- K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project samples.
- K.2 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems with compound quantitation and identification were observed for this project sample set.

### L. <u>Conclusion:</u>

- L.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project soil and water samples, and the results are considered acceptable.
- L.2 Due to a low surrogate recovery in sample number LON-LF11-SW01, all PQLs of the PCBs are qualified "J" as estimated and usable for limited purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

ANALYSIS:

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

MATRIX:

Water and Soil

DATE:

March 14, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 3 soil samples and 5 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0421). All of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-LF11-SW01	894	Water
LON-LF11-SW02	898	Water
LON-LF11-SW03	904	Water
LON-AB-01	906	Water
LON-LF07-S05	910	Soil
LON-LF07-S06	912	Soil
LON-LF07-S02	914	Soil
LON-TB-03	916	Water

The following QC sample designations were included in project documentation: sample number LON-AB-01 was designated as an ambient condition blank and sample number LON-TB-03 was designated as a trip blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

# II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

# B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
ethylbenzene	23.2 %
m & p-xylene	22.6 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

C. <u>Continuing Calibrations:</u>

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

# E. <u>Instrument Blanks:</u>

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

## F. Field Blanks:

- F.1 Sample number LON-AB-01 was designated as an ambient condition blank and sample number LON-TB-03 was designated as a trip blank.
- F.2 No target analytes were detected in the ambient condition blank at a concentration above the PQL and the results are considered acceptable.
- F.3 No target analytes were detected in the trip blank at a concentration above the PQL and the results are considered acceptable.

# G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

## H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### I. Matrix Spike/Matrix Spike Duplicate Analyses:

- I.1 Sample number LON-SS01-S10-4, which is associated with another project sample set from this site, was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

# J. System Performance:

J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound

identification confirmation.

 ${\rm J.2}$  No other problems with system performance were observed for the project samples.

# K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

# L. Conclusion:

- L.1 Due to the large % RSDs for some of the analytes in the initial calibration, the detected results for these analytes are qualified "J" as estimated and are usable for limited purposes.
- L.2 All other data are considered valid and usable for all purposes.

# ICF KAISER ENGINEERS

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

## DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX:

Water and Soil

DATE:

March 15, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 3 soil samples and 5 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0421). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-LF11-SW01	894	Water
LON-LF11-SW02	898	Water
LON-LF11-SW03	904	Water
LON-AB-01	906	Water
LON-LF07-S05	910	Soil
LON-LF07-S06	912	Soil
LON-LF07-S02	914	Soil
LON-TB-03	916	Water

The following QC sample designations were included in project documentation: sample number LON-AB-01 was designated as an ambient condition blank and sample number LON-TB-03 was designated as a trip blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

## II. <u>VALIDITY & COMMENTS:</u>

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

# B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

#### C. Continuing Calibrations:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-AB-01 was designated as an ambient condition blank and sample number LON-TB-03 was designated as a trip blank.
- F.2 Gasoline was not detected in the ambient condition blank at a concentration above the PQL and the results are considered acceptable.
- F.3 Gasoline was not detected in the trip blank at a concentration above the PQL and the results are considered acceptable.

# G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with project sample set.

#### H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for other project samples and the results are considered acceptable.

# I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

I.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

#### J. System Performance:

J.1 No problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

K.1 No problems were observed with compound quantitation and identification.

#### L. Conclusion:

L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

# ICF KAISER ENGINEERS

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

MATRIX:

Soil

DATE:

March 10, 1994

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 12 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 422) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-LF11-S01	946	Soil
LON-LF11-S02	948	Soil
LON-LF11-S03	950	Soil
LON-LF11-S04	952	Soil
LON-LF11-S05	954	Soil
LON-LF11-SD01	956	Soil
LON-LF11-SD02	958	Soil
LON-LF11-SD03	960	Soil
LON-ST02-S02	962	Soil
LON-ST02-S01-3	964	Soil
LON-LF07-S03	966	Soil
LON-LF07-S04	968	Soil

The following QC sample designations were included in project documentation: sample numbers LON-LF11-S01 and LON-LF11-S05 were designated as field replicate samples.

The analytical results for the soil samples were reported with an adjustment for moisture

content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. <u>Initial Calibration:</u>

B.1 The laboratory attempted to perform a 6 point initial calibration curve on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 50 ppm to 10,000 ppm. The 500 ppm and the 200 ppm standards were not used due to autosampler injection errors. A percent relative standard deviation (%RSD) of 48.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 48.3% exceeds the recommended QC criteria of 20.0%. Since the initial calibration was only a 4 point calibration curve, and the %RSD exceeds the recommended criteria, the detected results for diesel in all the soil samples are qualified "J" as estimated and usable for limited purposes.

# C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

## D. <u>Laboratory Blanks:</u>

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

#### G. <u>Field Replicate Analyses:</u>

G.1 A QC limit for precision of  $\leq 50\%$ , as measured by Relative Percent

Difference (RPD) between soil sample values, was specified for field replicate comparability.

G.2 Sample numbers LON-LF11-S01 and LON-LF11-S05 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

# H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

I. Matrix Spike/Matrix Spike Duplicate:

- 1.1 Sample LON-ST10-S01, which is not part of this project sample set but is from the Point Lonely site was analyzed as the soil matrix spike/matrix spike duplicate for chain of custody 422.
- 1.2 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

# J. System Performance:

No problems with system performance were observed for all project samples.

## K. Quantitation and Identification:

- K.1 Diesel was detected in sample number LON-ST02-S01-3 at a concentration of 1000 ppm.
- K.2 The laboratory reported diesel in sample number LON-LF07-S04 at a concentration of 80 ppm. It is the opinion of the reviewer that diesel was present in the sample but is also contaminated with lube oil, resulting in a result biased high. Therefore, the result is qualified "J"as estimated and usable for limited purposes.
- K.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.4 The laboratory reported incorrect PQLs for sample numbers LON-LF11-S02, LON-LF11,S03 and LON-LF11-S04. The PQLs have been corrected on the data summary forms by the reviewer.
- K.5 No other problems were observed with compound quantitation and identification.

## L. Conclusion:

- L.1 Diesel was detected in sample number LON-ST02-S01-3 at a concentration of 1000 ppm and sample number LON-LF07-S04 at a concentration of 80 ppm.
- L.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable

for limited purposes.

L.3 The PQLs of three soil samples have been adjusted on the data summary forms by the reviewer.

# ICF KAISER ENGINEERS

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

**MATRIX:** 

Soil

DATE:

April 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 12 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 422) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-LF11-S01	946	Soil
LON-LF11-S02	948	Soil
LON-LF11-S03	950	Soil
LON-LF11-S04	952	Soil
LON-LF11-S05	954	Soil
LON-LF11-SD01	956	Soil
LON-LF11-SD02	958	Soil
LON-LF11-SD03	960	Soil
LON-ST02-S02	962	Soil
LON-ST02-S01-3	964	Soil
LON-LF07-S03	966	Soil
LON-LF07-S04	968	Soil

The following QC sample designations were included in project documentation: sample numbers LON-LF11-S01 and LON-LF11-S05 were designated as field replicate samples.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

## II. VALIDITY & COMMENTS:

# A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. <u>Initial Calibration:</u>

B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 30.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 30.3 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

# C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. <u>Instrument Blanks:</u>

E.1 PCBs were not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks submitted for analysis with this project sample set.

#### G. Field Replicate Analyses:

- G.1 A QC limit for precision of ≤50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-LF11-S01 and LON-LF11-S05 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. <u>System Performance:</u>

J.1 No problems with system performance were observed for the project sample analyses.

K. Quantitation and Identification:

K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project samples.

K.2 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

K.3 No other problems with compound quantitation and identification were observed for this project sample set.

L. <u>Conclusion:</u>

L.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the project soil samples, and the results are considered acceptable.

# ICF KAISER **ENGINEERS**

ICF KAISER ENGINEERS. INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Pesticides by USEPA Method 8080

**MATRIX:** 

Soil

DATE:

April 22, 1995

#### I. **INTRODUCTION:**

Friedman & Bruya, Inc. (Seattle, WA) received 1 soil sample from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 422). One soil sample was requested for pesticide analysis by the pesticide organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The sample was analyzed for pesticides by USEPA Method 8080 on August 28, 1993.

The ICF site identification number and corresponding FBI laboratory sample identification number is listed below.

ICF Site No.

Lab Sample No. 950

Matrix Soil

LON-LF11-S03

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

#### **VALIDITY & COMMENTS:** 11.

Technical Holding Times: A.

The technical holding time QC criteria were met for all project sample A.1 analyses.

B. Initial Calibration:

B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.01 ppm to 1.0 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using calibration factors determined from the initial calibration using the EC detector. The %RSDs for the following target analytes exceeded the recommended QC criteria of 20.0%

Compound	%RSD
Endosulfan II	38%
Endrin Aldehyde	31%
DDT/Endo. Sulfate	32%

Due to the large percent RSDs, the detected results for these compounds are qualified "J" as estimated and are usable for limited purposes.

Methoxychlor was spiked in at concentrations too low to be detected by the ECD except for the 0.5 ppm initial calibration. Therefore, all detected results for this analyte are qualified "R" as rejected and unusable, and the practical quantitation limit (PQL) is raised to <0.5 ppm.

# C. Continuing Calibration:

- C.1 No continuing calibrations were analyzed during the sequence with the exception of the column degradation solution containing Endrin and DDT. The stability of the instrument, GC column, and detector were monitored using the Endrin and DDT column degradation solution and the Aroclor 1254 continuing calibration solution. These two solutions were used to check area consistency and surrogate area stability. It is the opinion of the reviewer, that since no pesticide continuing calibration solutions were analyzed, this is the only criteria that can be used to monitor system performance.
- C.2 Due to the absence of pesticide continuing calibrations, the PQLs for the target analytes in the project method blank and sample are qualified "J" as estimated and usable for limited purposes.

# D. <u>Laboratory Blanks:</u>

D.1 The laboratory did not report the pesticide results for the method blank associated with this project sample set. Reviewing the method blank raw data, the validator reported that target analytes were not detected in the method blank at a concentration above the PQL for the target analytes, and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Target analytes were not detected in the instrument blank at a concentration above the PQL for the target analytes, and the results are considered acceptable.

## F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

G. Field Replicate Analyses:

G.1 There were no field replicate samples submitted for analyses for the pesticide fraction.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

I. Matrix Spike/Matrix Spike Duplicate:

I.1 No matrix spike and matrix spike duplicate analyses were performed for the pesticide fraction.

J. System Performance:

- J.1 The laboratory set up the GC analytical run time on the primary GC column to elute all pesticide analytes within 9 minutes, causing co-elution of numerous pesticides and making identification difficult. A slower temperature program and/or slower carrier gas flow rate would increase resolution for many of the pesticide analytes.
- J.2 The Endrin and 4,4'-DDT breakdown met QC criteria and the results are considered acceptable.
- J.3 No other problems with system performance were observed for all other project sample analyses.

K. Quantitation and Identification:

- K.1 Due to the absence of pesticide continuing calibrations, all PQLs for the target analytes in the project method blank and the sample are qualified "J" as estimated and usable for limited purposes.
- K.2 Due to sensitivity problems with methoxychlor in the initial calibration, the PQL was raised by the reviewer to 0.5 ppm for the soil sample.
- K.3 The laboratory did not report the pesticide results for the method blank associated with this sample set. The reviewer, by looking at the raw data from the method blank reported that no target analytes were not detected at a concentration above the PQL and the results are considered acceptable.
- K.4 No other problems with compound quantitation and identification were observed.

L. Conclusion:

- L.1 No target analytes were detected in the project method blank or the sample at a concentration above the PQLs for the target analytes.
- L.2 Due to the absence of a pesticide continuing calibration, all PQLs for the target analytes in the method blank and the sample are qualified "J" as estimated and usable for limited purposes.

L.3 Due to low sensitivity and hydrocarbon interference detected in the initial calibration, the PQL for methoxychlor in the method blank and samples was raised to <0.5 ppm.

# ICF KAISER ENGINEERS

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS. NV 89120 702/795-0515

#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Soil

DATE:

March 14, 1995

# I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 12 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0422). All of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 29 and August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-LF11-S01	946	Soil
LON-LF11-S02	948	Soil
LON-LF11-S03	950	Soil
LON-LF11-S04	952	Soil
LON-LF11-S05	954	Soil
LON-LF11-SD01	956	Soil
LON-LF11-SD02	958	Soil
LON-LF11-SD03	960	Soil
LON-ST02-S02	962	Soil
LON-ST02-S01-03	964	Soil
LON-LF07-S03	966	Soil
LON-LF07-S04	968	Soil

The following QC sample designations were included in project documentation: sample numbers LON-LF11-S01 and LON-LF11-S05 were designated as field replicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

#### II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 29, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
toluene	26 %
ethylbenzene	53 %
m & p-xylene	41 %
o-xylene	28 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 when quantitated using the FID detector are qualified "J" as estimated and are usable for limited purposes.

B.3 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

C. <u>Continuing Calibrations:</u>

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.
- D. <u>Laboratory Blanks:</u>
  - D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.
- E. <u>Instrument Blanks:</u>
  - E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.
- F. Field Blanks:
  - F.1 There were no field blanks associated with this project sample set.
- G. Field Replicate Analysis:
  - G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
  - G.2 Samples LON-LF11-S01 and LON-LF11-S05 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

I. Matrix Spike/Matrix Spike Duplicate Analyses:

- I.1 Sample number LON-SS01-S10-4, which is associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 It is the opinion of the reviewer that carryover contamination from a previous sample has resulted in higher PQLs for the BTEX compounds in sample number LON-LF11-S04, therefore, the PQLs for the BTEX compounds are qualified "J" as estimated and are usable for limited purposes.
- J.3 No other problems with system performance were observed for the project samples.

# K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 A discrepancy exists between the detected amount of ethylbenzene reported by the laboratory and the amount recalculated by the reviewer in sample number LON-ST02-S01-03. The reported detected amount of this compound has been changed by the reviewer on the data summary form.
- K.3 No other problems were observed for compound quantitation and identification.

#### L. Conclusion:

- L.1 Due to the large %RSDs for some of the compounds in the initial calibrations, the detected amount of these target analytes in some of the samples have been qualified "J" as estimated and are usable for limited purposes, as indicated on the data summary forms.
- L.2 Due to a discrepancy in the reported amount and the recalculated amount of ethylbenzene in sample number LON-ST02-S01-03, the detected amount of this analyte has been changed on the data summary form.

- L.3 Due to carryover contamination of the BTEX analytes in sample number LON-LF11-S04, the PQLs for these compounds are higher than normal as indicated on the data summary form.
- L.4 All other data are considered valid and usable for all purposes.



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#### **DATA VALIDATION REPORT**

**PROGRAM:** Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Keith Strout

ANALYSIS: Gasoline by USEPA Method 8015M

MATRIX: Soil

**DATE:** March 15, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 12 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0422). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 29 and August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-LF11-S01	946	Soil
LON-LF11-S02	948	Soil
LON-LF11-S03	950	Soil
LON-LF11-S04	952	Soil
LON-LF11-S05	954	Soil
LON-LF11-SD01	956	Soil
LON-LF11-SD02	958	Soil
LON-LF11-SD03	960	Soil
LON-ST02-S02	962	Soil
LON-ST02-S01-03	964	Soil
LON-LF07-S03	966	Soil
LON-LF07-S04	968	Soil

The following QC sample designations were included in project documentation: sample numbers LON-LF11-S01 and LON-LF11-S05 were designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

# II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

C. Continuing Calibrations:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for

the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

# E. <u>Instrument Blanks:</u>

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

# F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

## G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples LON-LF11-S01 and LON-LF11-S05 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

#### H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

#### I. Matrix Spike/Matrix Spike Duplicate Analyses:

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

#### J. System Performance:

- J.1 It is the opinion of the reviewer that carryover contamination from a previous sample was present in sample number LON-LF11-S04. The PQL for gasoline in this sample has been raised by the reviewer, and has been qualified "J" as estimated and is usable for limited purposes.
- J.2 No other problems with system performance were observed for the project samples.

# K. Quantitation and Identification:

K.1 No problems were observed with compound quantitation and identification.

# L. <u>Conclusion:</u>

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 Due to carryover contamination in sample number LON-LF11-S04, the PQL for gasoline has been raised by the reviewer and is qualified "J" as estimated and is usable for limited purposes.



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#### **DATA VALIDATION REPORT**

**PROGRAM:** POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Timothy Vonnahme

**ANALYSIS:** Diesel by EPA Method 8015M

MATRIX: Soil

**DATE:** March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 4 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 423) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-SS01-SD01	884	Soil
LON-SS01-SD02	886	Soil
LON-SS01-SD03	888	Soil
LON-SS01-SD04	890	Soil

The diesel results for sample number LON-SS01-S15 were reported on this data summary form, even though the sample was included on the chain of custody 424.

The following QC sample designations were included in project documentation: sample numbers LON-SS01-SD01 and LON-SS01-SD04 were designated as field replicate samples.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project

samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory attempted to perform a 6 point initial calibration curve on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 50 ppm to 10,000 ppm. The 500 ppm and the 200 ppm standards were not used due to autosampler injection errors. A percent relative standard deviation (%RSD) of 48.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 48.3% exceeds the recommended QC criteria of 20.0%. Since the initial calibration was established using only a 4 point calibration curve, and the %RSD exceeds the recommended criteria, the detected results for diesel in all the soil samples are qualified "J" as estimated and usable for limited purposes.

# C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

# F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

#### G. Field Replicate Analyses:

- G.1 A QC limit for precision of ≤50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS01-SD01 and LON-SS01-SD04 were utilized for field replicate analysis. The diesel results were 120 ppm and 270 ppm respectively,

which is outside the acceptable RPD criteria of  $\leq$ 50%. It is not known what effect this will have on the quality of the data.

# H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

# I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

# J. <u>System Performance</u>:

J.1 No problems with system performance were observed for all project samples.

# K. Quantitation and Identification:

- K.1 Diesel was detected in sample numbers LON-SS01-S15 at concentrations of 6300 ppm, LON-SS01-SD02 at a concentration of 180 ppm, and LON-SS01-SD04 at a concentration of 270 ppm.
- K.2 The laboratory reported diesel in sample LON-SS01-SD03 at a concentration of 280 ppm. It is the opinion of the reviewer that diesel was not present in the sample because the sample chromatogram did not support the diesel pattern, but did show lube oil contamination. Therefore, the reported result was changed to the appropriate PQL on the data summary form by the reviewer.
- K.3 The laboratory reported diesel in sample LON-SS01-SD02 at a concentration of 330 ppm. The reviewer calculated the diesel result to be 180 ppm. The result was adjusted on the data summary form by the reviewer.
- K.4 The laboratory reported <60 PQL for sample number LON-SS01-SD01. It is the opinion of the reviewer that diesel was present in the sample at a concentration of 120 ppm because the sample chromatogram supported the diesel pattern. However, the diesel may be carryover from the previous high level sample. Therefore, the result is qualified "J" as estimated and usable for limited purposes.
- K.5 The laboratory also reported <60 PQL for sample number LON-SS01-SD04. It is the opinion of the reviewer that diesel was present in the sample at a concentration of 270 ppm because the sample chromatogram supported the diesel pattern. Therefore, the result is qualified "J" as estimated and usable for limited purposes.
- K.6 Due to the large percent RSDs in the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.7 No other problems were observed with compound quantitation and identification.

#### L. Conclusion:

- L.1 Diesel was detected in sample numbers LON-SS01-S15 at concentrations of 6300 ppm, LON-SS01-SD02 at a concentration of 180 ppm, and LON-SS01-SD04 at a concentration of 270 ppm.
- L.2 Due to lube oil contamination, the diesel result in sample number LON-SS01-SD03 was changed by the reviewer to the appropriate PQL on the data summary form.
- L.3 Due to possible carryover from a previous high level sample, the diesel result of 120 ppm in sample number LON-SS01-SD01 was qualified 'J" as estimated and usable for limited purposes. The laboratory had reported a PQL value of <60 ppm for this sample number.
- L.4 The laboratory reported <60 PQL for sample number LON-SS01-SD04. It is the opinion of the reviewer that diesel was present in the sample at a concentration of 270 ppm. The result is qualified "J" as estimated and usable for limited purposes.
- L.5 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

BTEX compounds by USEPA Method 8020

MATRIX:

Soil

DATE:

March 15, 1995

## I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 4 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0423). All of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for the BTEX compounds by USEPA Method 8020 on August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	Matrix
LON-SS01-SD01	884	Soil
LON-SS01-SD02	886	Soil
LON-SS01-SD03	888	Soil
LON-SS01-SD04	890	Soil

The laboratory did not report the results for sample numbers LON-SS01-SD02 and LON-SS01-SD04. The following QC sample designations were included in project documentation: sample numbers LON-SS01-SD01 and LON-SS01-SD04 were designated as field replicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

# II. VALIDITY & COMMENTS:

#### A. <u>Technical Holding Times</u>:

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 29, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	<u>% RSD</u>
toluene	26 %
ethylbenzene	53 %
m & p-xylene	41 %
o-xylene	28 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 when quantitated using the FID detector are qualified "J" as estimated and are usable for limited purposes.

#### C. Continuing Calibrations:

C.1 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

D. <u>Laboratory Blanks</u>:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

# E. <u>Instrument Blanks:</u>

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

# F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

# G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS01-SD01 and LON-SS01-SD04 were utilized for field replicate analysis. The laboratory did not report the results for sample number LON-SS01-SD04, therefore a comparison of the results could not be made.

# H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

# I. Matrix Spike/Matrix Spike Duplicate Analyses:

- I.1 Sample number LON-ST10-S01, which is associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria for the BTEX compounds were met and the results are considered acceptable.

# J. <u>System Performance:</u>

J.1 No problems with system performance were observed for the project samples.

# K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

## L. <u>Conclusion:</u>

- L.1 There were no target analytes detected at a concentration above the PQLs in any of the project samples.
- L.2 The laboratory did not report the analytical results for project sample numbers LON-SS01-SD02 and LON-SS01-SD04.

L.3 All data are considered valid and usable for all purposes.



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#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

**MATRIX:** 

Soil

DATE:

March 16, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 4 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0423). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS01-SD01	884	Soil
LON-SS01-SD02	886	Soil
LON-SS01-SD03	888	Soil
LON-SS01-SD04	890	Soil

The laboratory did not report the results for sample numbers LON-SS01-SD02 and LON-SS01-SD04. The following QC sample designations were included in project documentation: sample numbers LON-SS01-SD01 and LON-SS01-SD04 were designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This

report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

# II. VALIDITY & COMMENTS:

#### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

# C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

## E. <u>Instrument Blanks:</u>

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

### G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples numbers LON-SS01-SD01 and LON-SS01-SD04 were utilized for field replicate analysis. The laboratory did not report the results for sample number LON-SS01-SD04, therefore, a comparison of the results could not be made.

# H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

### I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

I.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

### J. <u>System Performance:</u>

J.1 No problems with system performance were observed for the project samples.

# K. Quantitation and Identification:

- K.1 The laboratory reported a detected result of 100 ppm diesel in sample number LON-SS01-SD01. It is the opinion of the reviewer that the chromatographic pattern confirms the presence of late eluting hydrocarbons, therefore, the detected result is qualified "J" as estimated and is usable for limited purposes.
- K.2 No other problems were observed with compound quantitation and identification.

## L. Conclusion:

L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

L.2 Due to the presence of late eluting hydrocarbons in sample number LON-SS01-SD01, the detected result is qualified "J" as estimated and is usable for limited purposes.

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### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Timothy Vonnahme

ANALYSIS:

Diesel by EPA Method 8015M

**MATRIX:** 

Soil

DATE:

March 10, 1995

## I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (Seattle, WA) received 15 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 424) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS01-S01	852	Soil
LON-SS01-S02-03	854	Soil
LON-SS01-S03	858	Soil
LON-SS01-S04	860	Soil
LON-SS01-S05	862	Soil
LON-SS01-S06	864	Soil
LON-SS01-S07-1	866	Soil
LON-SS01-S08-2.5	868	Soil
LON-SS01-S09	870	Soil
LON-SS01-S10-4	872	Soil
LON-SS01-S11	874	Soil
LON-SS01-S12-2.5	876	Soil
LON-SS01-S13-01	878	Soil
LON-SS01-S14-03	880	Soil
LON-SS01-S15	882	Soil

Sample number LON-SS01-S15 was included on this chain of custody, but the laboratory reported the results on chain of custody 423.

The following QC sample designations were included in project documentation: sample numbers LON-SS01-S02-3 and LON-SS01-S14-3 were designated as field replicate samples.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. Initial Calibration:

B.1 The laboratory attempted to perform a 6 point initial calibration curve on GC Instrument ICF6 on August 21, 1993. The range of the initial calibration was from 50 ppm to 10,000 ppm. The 500 ppm and the 200 ppm standards were not used due to autosampler injection errors. A percent relative standard deviation (%RSD) of 48.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 48.3% exceeds the recommended QC criteria of 20.0%. Since the initial calibration was established using only a 4 point calibration curve, and the %RSD exceeds the recommended criteria, the detected results for diesel in all the soil samples are qualified "J" as estimated and usable for limited purposes.

## C. Continuing Calibration:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks</u>:

D.1 Diesel was not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the

PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

## G. Field Replicate Analyses:

- G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS01-S02-3 and LON-SS01-S14-3 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

# H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

# I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

## J. System Performance:

J.1 No problems with system performance were observed for all project samples.

# K. Quantitation and Identification:

K.1 Diesel was detected in the following project soil samples:

ICF Site No.	Diesel Conc. (ppm)
LON-SS01-S04	2500
LON-SS01-S07-1	5000
LON-SS01-S08-2.5	16000
LON-SS01-S11	3000
LON-SS01-S12-2.5	2300
LON-SS01-S13-01	15400

- K.2 The laboratory reported incorrect PQLs for sample numbers LON-SS01-S02-3 and LON-SS01-S06. The PQLs have been corrected on the data summary forms by the reviewer.
- K.3 The laboratory reported diesel in sample number LON-SS01-S13-01 at a concentration of 1500 ppm. The reviewer calculated a concentration of 15,400 ppm. It is the opinion of the reviewer that diesel was present in the sample 10 times greater than that reported concentration by the laboratory because the sample chromatogram displayed a saturated diesel pattern, and the area counts support the latter result. Therefore, the result was changed on the data summary form by the reviewer. Since the adjusted result was outside the linear range of the calibration curve, the result is qualified "J" as estimated and usable for limited purposes.

- K.4 Due to the large percent RSD in the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.5 The laboratory reported a PQL of <2300 for sample number LON-SS01-S12-2.5. Since the chromatogram supports a diesel pattern, it is the opinion of the reviewer that the laboratory inadvertently inserted the "<" before the 2300 ppm. The diesel result has been adjusted to the data summary form by the reviewer.
- K.6 No other problems were observed with compound quantitation and identification.

### L. Conclusion:

- L.1 Diesel was detected in six sample numbers ranging in concentrations from 2300 ppm to 16000 ppm as listed above in Section K.
- L.2 The PQLs for sample numbers LON-SS01-S02-3 and LON-SS01-S06 have been corrected on the data summary form by the reviewer.
- L.3 Due to the large percent RSD in the initial calibration, the detected results for diesel in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

**ANALYSIS:** 

BTEX compounds by USEPA Method 8020

MATRIX:

Soil

DATE:

March 15, 1995

## I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 15 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0424). All of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for the BTEX compounds by USEPA Method 8020 on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	Matrix
LON-SS01-S01	852	Soil
LON-SS01-S02-03	854	Soil
LON-SS01-S03	858	Soil
LON-SS01-S04	860	Soil
LON-SS01-S05	862	Soil
LON-SS01-S06	864	Soil
LON-SS01-S07-01	866	Soil
LON-SS01-S08-2.5	868	Soil
LON-SS01-S09	870	Soil
LON-SS01-S10-04	872	Soil
LON-SS01-S11	874	Soil
LON-SS01-S12-2.5	876	Soil :
LON-SS01-S13-01	878	Soil
LON-SS01-S14-03	880	Soil
LON-SS01-S15	882	Soil

The following QC sample designations were included in project documentation: sample numbers LON-SS01-S02-03 and LON-SS01-S14-03 were designated as field replicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

### II. VALIDITY & COMMENTS:

# A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 3-4 on August 29, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	<u>% RSD</u>
toluene	26 %
ethylbenzene	53 %
m & p-xylene	41 %
o-xylene	28 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 when quantitated using the FID detector are qualified "J" as estimated and are usable for limited purposes.

## C. Continuing Calibrations:

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

# E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

## F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

# G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS01-S02-03 and LON-SS01-S14-03 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

## I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

- I.1 Sample number LON-SS01-S10-04 was used for the matrix spike/matrix spike duplicate analyses.
- I.2 All of the matrix spike/matrix spike duplicate QC criteria were met for the BTEX compounds and the results are considered acceptable.

## J. System Performance:

- J.1 It is the opinion of the reviewer that carryover contamination from previous analyses was present in sample numbers LON-SS01-S01 and LON-SS01-S04. The PQLs for the BTEX compounds in these samples have been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- J.2 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

### L. Conclusion:

L.1 Due to carryover contamination from previous analyses, the PQLs for the BTEX compounds in sample numbers LON-SS01-S01 and LON-SS01-S04 have been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.



- L.2 Due to the large % RSDs in the initial calibration for select BTEX analytes, the detected results for these analytes in some samples are qualified "J" as estimated and are usable for limited purposes.
- L.3 The laboratory did not report the analytical results for sample number LON-SS01-S15.
- L.4 All other data are considered valid and usable for all purposes.



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### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX:

Soil

DATE:

March 16, 1995

# I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 15 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0424). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS01-S01	852	Soil
LON-SS01-S02-03	854	Soil
LON-SS01-S03	858	Soil
LON-SS01-S04	860	Soil
LON-SS01-S05	862	Soil
LON-SS01-S06	864	Soil
LON-SS01-S07-01	866	Soil
LON-SS01-S08-2.5	868	Soil
LON-SS01-S09	870	Soil
LON-SS01-S10-04	872	Soil
LON-SS01-S11	874	Soil
LON-SS01-S12-2.5	876	Soil
LON-SS01-S13-01	878	Soil
LON-SS01-S14-03	880	Soil
LON-SS01-S15	882	Soil

The following QC sample designations were included in project documentation: sample numbers LON-SS01-S02-03 and LON-SS01-S14-03 were designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

## II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

# C. <u>Continuing Calibrations</u>:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs): are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results

are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

# E. <u>Instrument Blanks:</u>

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

# G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS01-S02-03 and LON-SS01-S14-03 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

# H. <u>Surrogate Recoveries:</u>

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

### I. Matrix Spike/Matrix Spike Duplicate Analyses:

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

### J. System Performance:

- J.1 It is the opinion of the reviewer that carryover contamination from previous analyses was present in sample numbers LON-SS01-S01 and LON-SS01-S04. Therefore, the PQL for gasoline in these samples has been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- J.2 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 The laboratory reported detected results in sample numbers LON-SS01-S07-01, LON-SS01-S08-2.5, LON-SS01-S12-2.5, and LON-SS01-S13-01 and indicated that it was diesel fuel. It is the opinion of the reviewer that the chromatographic pattern confirms the presence of late eluting hydrocarbons, therefore, the detected results are qualified "J" as estimated and are usable for limited purposes.
- K.2 No other problems were observed with compound quantitation and identification.

# L. Conclusion:

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 Due to carryover contamination in sample numbers LON-SS01-S01 and LON-SS01-S04, the PQL for gasoline in these samples has been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- L.3 Due to the presence of late eluting hydrocarbons in sample numbers LON-SS01-S07-01, LON-SS01-S08-2.5, LON-SS01-S12-2.5, and LON-SS01-S13-01, the detected results in these samples are qualified "J" as estimated and are usable for limited purposes.



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### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Soil and Water

DATE:

March 10, 1995

## I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (Seattle, WA) received 8 soil samples and 4 water samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 425) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-SS05-SW07	738	Water
LON-SS05-SW08	742	Water
LON-SS05-S19	746	Soil
LON-SS05-S17-3	748	Soil
LON-SS05-S16	750	Soil
LON-SS05-S15-2.5	<i>7</i> 52	Soil
LON-SS05-S14	754	Soil
LON-SS05-S13	756	Soil
LON-SS05-S12-03	758	Soil
LON-SS05-S11	760	Soil
LON-SS05-SW05	762	Water
LON-SS05-SW06	772	Water

The following QC sample designations were included in project documentation: sample numbers LON-SS05-S13 and LON-SS05-S19 were designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The quantitation limits reported by the laboratory for the water samples (200 ppb) were higher than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. Initial Calibration:

- B.1 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 13.0% was calculated by the reviewer using calibration factors determined from the initial 6 point calibration. The %RSD of 13.0% is within the recommended QC criteria of 20.0%.
- B.2 The laboratory attempted to perform a 6 point initial calibration curve on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 50 ppm to 10,000 ppm. The 500 ppm and the 200 ppm standards were not used due to autosampler injection errors. A percent relative standard deviation (%RSD) of 48.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 48.3% exceeds the recommended QC criteria of 20.0%. Since the initial calibration was established using only a 4 point calibration curve, and the %RSD exceeds the recommended criteria, the detected results for diesel in all the soil samples are qualified "J" as estimated and usable for limited purposes.
- C. <u>Continuing Calibration:</u>
  - C.1 All QC criteria for the continuing calibrations were met and the results are

considered acceptable.

## D. <u>Laboratory Blanks:</u>

D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

## G. <u>Field Replicate Analyses:</u>

- G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS05-S13 and LON-SS05-S19 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

## I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

## J. <u>System Performance:</u>

J.1 No problems with system performance were observed for all project samples.

### K. Quantitation and Identification:

- K.1 Diesel was detected in sample numbers LON-SS05-S19 at a concentration of 290 ppm, LON-SS05-S16 at a concentration of 50 ppm, LON-SS05-S15-2.5 at a concentration of 50 ppm, LON-SS05-S14 at a concentration of 4300 ppm, LON-SS05-S13 at a concentration of 280 ppm, LON-SS05-S12-03 at a concentration of 1400 ppm and LON-SS05-S11 at a concentrations of 930 ppm.
- K.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.4 The laboratory reported incorrect PQLs for all water samples. The PQLs have been corrected on the data summary forms by the reviewer.
- K.5 No other problems were observed with compound quantitation and

identification.

## L. Conclusion:

- L.1 Diesel was detected in seven of the soil samples ranging in concentrations between 50 ppm and 1400 ppm. Refer to Section K.1 for the specific sample numbers and associated concentrations.
- L.2 Due to the large percent RSDs in the initial calibrations on GC instrument ICF6, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.3 The PQLs for the four water samples have been changed to 1000 ppb on the data summary form by the reviewer.

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# ICF KAISER ENGINEERS

ICF KAISER ENGINEERS, INC. 2700 CHANDLER AVENUE, BUILDING C LAS VEGAS, NV 89120 702/795-0515

## **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

ANALYSIS:

BTEX compounds by USEPA Method 8020

MATRIX: DATE:

I.

Water and Soil March 16, 1995

**INTRODUCTION:** 

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 4 water samples and 8 soil samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 0425). All of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for the BTEX compounds by USEPA Method 8020 on August 27 and August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	Matrix
LON-SS05-SW07	739	Water
LON-SS05-SW08	745	Water
LON-SS05-S19	746	Soil
LON-SS05-S17-03	748	Soil
LON-SS05-S16	<i>7</i> 50	Soil
LON-SS05-S15-2.5	<i>7</i> 52	Soil
LON-SS05-S14	<i>7</i> 54	Soil
LON-SS05-S13	<i>7</i> 56	Soil
LON-SS05-S12-03	<i>7</i> 58	Soil
LON-SS05-S11	760	Soil
LON-SS05-SW05	764	Water :
LON-SS05-SW06	767	Water

The following QC sample designations were included in project documentation: sample numbers LON-SS05-S13 and LON-SS05-S19 were designated as field replicates, and sample numbers LON-SS05-SW07 and LON-SS05-SW08 were designated as field duplicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

# II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a five point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
ethylbenzene	23.2 %
m & p-xylene	22.6 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

# C. <u>Continuing Calibrations:</u>

C.1 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

## E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

# F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

# G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples LON-SS05-S13 and LON-SS05-S19 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. Field Duplicate Analysis:

- H.1 A QC limit for precision of  $\leq$  20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field duplicate comparability.
- H.2 Samples LON-SS05-SW07 and LON-SS05-SW08 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

## I. <u>Surrogate Recoveries:</u>

I.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

# J. Matrix Spike/Matrix Spike Duplicate Analyses:

- J.1 Sample number LON-SS05-S15-2.5 was used for the soil matrix spike/matrix spike duplicate analyses, and the laboratory used method blank water for the water MS/MSD analyses.
- J.2 All of the soil matrix spike/matrix spike duplicate QC criteria were met and

the results are considered acceptable.

J.3 All of the water matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

## K. <u>System Performance</u>:

- K.1 It is the opinion of the reviewer that carryover contamination from previous analyses was present in sample numbers LON-SS05-S17-03 and LON-SS05-S12-03. Therefore, the PQLs for the BTEX compounds have been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- K.2 The laboratory did not report the results for toluene and ethylbenzene in sample number LON-SS05-S11, probably because of matrix interference in the sample.
- K.3 No other problems with system performance were observed for the project samples.

## L. Quantitation and Identification:

- L.1 Compound identification was confirmed using a second column and an alternate detector.
- L.2 Discrepancies exist between the reported detected results and the results recalculated by the reviewer for the BTEX compounds in sample number LON-SS05-S19. The corrected results have been inserted on the data summary forms by the reviewer.
- L.3 No other problems were observed for compound quantitation and identification.

### M. Conclusion:

- M.1 Due to the large % RSDs for some of the BTEX compounds in the initial calibration, the detected results for these compounds in some of the project samples have been qualified "J" as estimated and are usable for limited purposes.
- M.2 Due to carryover contamination in some of the project samples, the PQLs for the BTEX compounds in these samples have been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- M.3 The laboratory did not report the results for toluene and ethylbenzene in sample number LON-SS05-S11, probably due to matrix interference.
- M.4 All other data are considered valid and usable for all purposes.



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## **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX:

Water and Soil

DATE:

March 15, 1995

## I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 4 water samples and 8 soil samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 0425). All of the samples for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 27 and August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

Lab Sample No.	Matrix
739	Water
<i>7</i> 45	Water
746	Soil
748	Soil
<i>7</i> 50	Soil
752	Soil
<i>7</i> 54	Soil
<i>7</i> 56	Soil
<i>7</i> 58	Soil
760	Soil
764	Water
767	Water
	739 745 746 748 750 752 754 756 758 760 764

The following QC sample designations were included in project documentation: sample numbers LON-SS05-S13 and LON-SS05-S19 were designated as field replicates and sample numbers LON-SS05-SW07 and LON-SS05-SW08 were designated as field duplicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

C. Continuing Calibrations:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the

FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

# D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

## F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

## G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples LON-SS05-S13 and LON-SS05-S19 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. Field Duplicate Analysis:

- H.1 A QC limit for precision of  $\leq$  20%, as measured by Relative Percent Difference (RPD) between water sample values, was specified for field duplicate comparability.
- H.2 Samples LON-SS05-SW07 and LON-SS05-SW08 were utilized for field duplicate analysis. The results of the field duplicate analyses met all applicable QC criteria and the results are considered acceptable.

# I. <u>Surrogate Recoveries:</u>

I.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

### J. Matrix Spike/Matrix Spike Duplicate Analyses:

J.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

## K. System Performance:

- K.1 It is the opinion of the reviewer that carryover contamination from previous analyses was present in sample numbers LON-SS05-S17-03 and LON-SS05-S12-03. Therefore, the PQL for gasoline in these samples has been raised by the reviewer and are qualified "J" as estimated and are usable for limited purposes.
- K.2 No other problems with system performance were observed for the project samples.

## L. Quantitation and Identification:

- L.1 The low initial calibration standard for gasoline analyzed on system 3-4 was 100 ppb, therefore, the PQL for gasoline in the water samples analyzed on system 3-4 has been raised by the reviewer to 100 ppb.
- L.2 No other problems were observed with compound quantitation and identification.

### M. Conclusion:

- M.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- M.2 Due to carryover contamination in sample numbers LON-SS05-S17-03 and LON-SS05-S12-03, the PQL for gasoline in theses samples has been raised by the reviewer and qualified "J" as estimated and is usable for limited purposes.
- M.3 Since the low initial calibration standard on system 3-4 was 100 ppb, the PQL for gasoline for the water samples analyzed on system 3-4 has been raised by the reviewer to 100 ppb.



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### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

**MATRIX:** 

Soil and water

DATE:

March 10, 1995

## I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 2 soil samples and 5 water samples from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 426) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS05-SW01	658	Water
LON-BKGD-SW02	666	Water
LON-SS05-SW02	667	Water
LON-SS05-SW03	675	Water
LON-SS05-SW04	679	Water
LON-SS05-SD06	686	Soil
LON-SS05-SD05	698	Soil

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The quantitation limits reported by the laboratory for the water samples (1000 ppb) were higher than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. <u>Initial Calibration:</u>

- B.1 The laboratory attempted to perform a 6 point initial calibration curve on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 50 ppm to 10,000 ppm. The 500 ppm and the 200 ppm standards were not used due to autosampler injection errors. A percent relative standard deviation (%RSD) of 48.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 48.3% exceeds the recommended QC criteria of 20.0%. Since the initial calibration was established using only a 4 point calibration curve, and the %RSD exceeds the recommended criteria, the detected results for diesel in all the soil samples are qualified "J" as estimated and usable for limited purposes.
- B.2 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 13.0% was calculated by the reviewer using calibration factors determined from the initial 6 point calibration. The %RSD of 13.0% is within the recommended QC criteria of 20.0%.

## C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. Laboratory Blanks:

D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

G. Field Replicate Analyses:

G.1 There were no field replicate samples associated with this project sample set.

H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- I.1 Sample LON-SS05-S01, which is not part of this project sample set but is from the Point Lonely site was analyzed as the soil matrix spike/matrix spike duplicate for chain of custody 426. The corresponding matrix spike analysis could not be located in the raw data.
- 1.2 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.
- J. System Performance:
  - 1.1 No problems with system performance were observed for all project samples.
- K. Quantitation and Identification:
  - K.1 Diesel was detected in sample numbers LON-SS05-SD06 and LON-SS05-SD05 at concentrations of 690 ppm and 240 ppm, respectively.
  - K.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.
  - K.3 The laboratory reported incorrect PQLs for all the water samples. The PQLs have been corrected on the data summary forms by the reviewer.
  - K.4 No other problems were observed with compound quantitation and identification.
- L. <u>Conclusion:</u>
  - L.1 Diesel was detected in sample number LON-SS05-SW06 at a concentration of 690 ppm and sample number LON-SS05-SD05 at a concentration of 240 ppm.
  - L.2 Due to the large percent RSDs in the initial calibration on GC instrument ICF6, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.



L.3 The PQLs for the five water samples have been changed to 1000 ppb on the data summary form by the reviewer.



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#### DATA VALIDATION REPORT

**PROGRAM:** 

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

MATRIX:

Water

DATE:

April 10, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 1 water sample from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 426) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The sample was analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 27, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.

Lab Sample No.

<u>Matrix</u> Water

LON-BKGD-SW02

666

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory performed a five point initial calibration on GC instrument

ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. <u>Laboratory Blanks:</u>

D.1 PCBs were not detected in the method blank at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 PCBs were not detected in the instrument blank at a concentration above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blanks submitted for analysis with this project sample set.

G. Field Replicate Analyses:

F.1 There were no field replicate samples submitted for analysis with this project sample set.

H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

1. Matrix Spike/Matrix Spike Duplicate:

- I.1 Tap water was used for the water matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. System Performance:

J.1 No problems with system performance were observed for the project sample analyses.

K. Quantitation and Identification:

- K.1 PCBs were not detected at concentrations above the PQL of the PCBs in sample number LON-BKGD-SW02.
- K.2 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

K.3 No other problems with compound quantitation and identification were observed for this project sample set.

# L. <u>Conclusion:</u>

L.1 PCBs were not detected at concentrations above the PQL of the PCBs in sample number LON-BKGD-SW02, and the results are considered acceptable.

# ICF KAISER ENGINEERS

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## **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

ANALYSIS:

Pesticides by USEPA Method 8080

**MATRIX:** 

Water

DATE:

April 21, 1995

### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 1 water sample from the Point Lonely site on August 25, 1993 (referenced chain of custody record No. 426) for pesticide analysis by the pesticide organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The sample was analyzed for pesticides by USEPA Method 8080 on August 27, 1993.

The ICF site identification number and corresponding FBI laboratory sample identification number is listed below.

ICF Site No. LON-BKGD-SW02 Lab Sample No.

<u>Matrix</u> Water

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. Initial Calibration:

B.1 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.01 ppm to 1.0 ppm. The percent relative standard deviations (%RSDs) were calculated for all compounds using calibration factors determined from the initial calibration using the EC detector. The %RSD for the following target analyte exceeded the recommended QC criteria of 20.0%

Compound%RSDbeta-BHC22%

Methoxychlor was spiked in at concentrations too low to be detected by the EC detector until the 0.5 ppm initial calibration standard. Therefore, all detected results for this analyte are qualified "R" as rejected and unusable, and the practical quantitation limit (PQL) was raised accordingly for the water sample.

Due to the large percent RSD in the analyte listed above, the detected results for this compound is qualified "J" as estimated and usable for limited purposes.

## C. <u>Continuing Calibration:</u>

C.1 No continuing calibrations were analyzed during the sequence with the exception of the column degradation solution containing Endrin and DDT. The stability of the instrument, GC column, and detector were monitored using the Endrin and DDT column degradation solution and the Aroclor 1254 continuing calibration solution. These two solutions were used to check area consistency and surrogate area stability. It is the opinion of the reviewer, that since no pesticide continuing calibration solutions were analyzed, this is the only criteria that can be used to monitor system performance.

Due to the absence of pesticide continuing calibrations, the PQLs for the method blank and sample are qualified "J" as estimated and usable for limited purposes.

## D. <u>Laboratory Blanks</u>:

D.1 The laboratory did not report the pesticide results for the method blank associated with this sample set. Reviewing the method blank raw data, the validator reported that target analytes were not detected in the method blank at a concentration above the PQL for the target analytes, and the results are considered acceptable.

## E. Instrument Blanks:

E.1 Target analytes were not detected in the instrument blank at a concentration above the PQL for the target analytes, and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

### G. <u>Field Replicate Analyses:</u>

G.1 There were no field replicate samples submitted for analyses for the pesticide fraction.

## H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

## I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

I.1 No matrix spike and matrix spike duplicate analyses were performed for the pesticide fraction.

### J. System Performance:

- J.1 The laboratory set up the GC analytical run time on the primary GC column to elute all pesticide analytes within 9 minutes, causing co-elution of numerous pesticides and making identification difficult. A slower temperature program and/or slower carrier gas flow rate would increase resolution for many of the pesticide analytes.
- J.2 The Endrin and 4,4'-DDT breakdown met QC criteria and the results are considered acceptable.
- J.3 No other problems with system performance were observed for all other project sample analyses.

### K. Quantitation and Identification:

- K.1 Due to the absence of pesticide continuing calibrations, all PQLs for the target analytes in the project method blank and the sample are qualified "J" as estimated and usable for limited purposes.
- K.2 Due to sensitivity problems with methoxychlor in the initial calibration, the PQL was raised by the reviewer to 10 ppb for the water sample.
- K.3 The laboratory did not report the pesticide results for the method blank associated with this sample set. The reviewer, by looking at the raw data from the method blank reported that no target analytes were not detected at a concentration above the PQL for the target analytes, and the results are considered acceptable.
- K.4 The laboratory reported incorrect PQLs of 2 ppb of the target analytes in the project water sample. The PQLs for the target analytes have been corrected to 0.01 ppm on the data summary form by the reviewer.
- K.5 No other problems with compound quantitation and identification were observed.

### L. Conclusion:

- L.1 No target analytes were detected in the method blank or the sample at a concentration above the PQLs for the target analytes.
- L.2 Due to the absence of a pesticide continuing calibration, all PQLs for the target analytes in the method blank and the sample are qualified "J" as estimated and usable for limited purposes.

- L.3 Due to low sensitivity and hydrocarbon interference detected in the initial calibration, the PQL for methoxychlor in the method blank and sample was raised to <10 ppb.
- L.4 The PQLs for the target analytes in the water sample have been corrected on the summary data forms by the reviewer.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

ANALYSIS:

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Water and Soil

DATE:

March 16, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 6 water samples and 3 soil samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 0426). Two of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and all of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 27 and August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS05-S10-03	662	Soil
LON-SS05-SW01	660	Water
LON-SS05-SW02	668	Water
LON-SS05-SW03	678	Water
LON-BKGD-SW02	672	Water
LON-SS05-SW04	680	Water
LON-TB-02	684	Water
LON-SS05-SD06	686	Soil
LON-SS05-SD05	698	Soil

The following QC sample designation was included in project documentation: sample number LON-TB-02 was designated as a trip blank.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a five point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
ethylbenzene	23.2 %
m & p-xylene	22.6 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

B.3 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

C. Continuing Calibrations:

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

### E. <u>Instrument Blanks:</u>

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-TB-02 was designated as a trip blank in project documentation.
- F.2 No target analytes were detected in the trip blank at a concentration above the PQL and the results are considered acceptable.

#### G. Field Replicate Analysis:

G.1 There were no field replicate samples associated with this project sample set.

#### H. Surrogate Recoveries:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

## I. Matrix Spike/Matrix Spike Duplicate Analyses:

I.1 Sample number LON-SS05-S01, which is associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.

1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

### J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 No other problems with system performance were observed for the project samples.

#### K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 The laboratory did not report the results for project sample number LON-SS05-S10-03.
- K.3 No other problems were observed for compound quantitation and identification.

### L. Conclusion:

- L.1 Due to the large % RSDs for ethylbenzene and xylene in the initial calibration on system 3-4, the detected results for these analytes in sample number LON-SS05-SW03 are qualified "J" as estimated and are usable for limited purposes.
- L.2 The laboratory did not report the results for project sample number LON-SS05-S10-03.
- L.3 All other data are considered valid and usable for all purposes.

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#### DATA VALIDATION REPORT

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

REVIEWER:

Keith Strout

ANALYSIS:

Gasoline by USEPA Method 8015M

MATRIX:

Water and Soil

DATE:

March 15, 1995

#### l. **INTRODUCTION:**

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 6 water samples and 3 soil samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 0426). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 27 and August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS05-S10-03	662	Soil
LON-SS05-SW01	660	Water
LON-SS05-SW02	668	Water
LON-SS05-SW03	678	Water
LON-BKGD-SW02	672	Water
LON-SS05-SW04	680	Water
LON-TB-02	684	Water
LON-SS05-SD06	686	Soil
LON-SS05-SD05	698	Soil

The following QC sample designation was included in project documentation: sample number LON-TB-02 was designated as a trip blank.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

#### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. <u>Initial Calibration:</u>

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

C. Continuing Calibrations:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the

instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the POL and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

- F.1 Sample number LON-TB-02 was designated as a trip blank in project documentation.
- F.2 Gasoline was not detected in the trip blank at a concentration above the PQL and the results are considered acceptable.

### G. Field Replicate Analysis:

G.1 There were no field replicate samples identified in the project documentation.

## H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

## I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

### J. System Performance:

J.1 No problems with system performance were observed for the project samples.

### K. Quantitation and Identification:

- K.1 The laboratory did not report the analytical results for project sample number LON-SS05-S10-03.
- K.2 The low initial calibration standard on system 3-4 was 100 ppb, therefore, the PQL for gasoline in the water samples analyzed on system 3-4 has been raised by the reviewer to 100 ppb.
- K.3 No other problems were observed with compound quantitation and identification.

### L. <u>Conclusion:</u>

- L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- L.2 The laboratory did not report the analytical results for project sample number LON-SS05-S10-03.
- L.3 Since the low initial calibration standard on system 3-4 was 100 ppb, the PQL for gasoline in the water samples analyzed on system 3-4 has been raised by the reviewer to 100 ppb.

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#### **DATA VALIDATION REPORT**

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Diesel by EPA Method 8015M

MATRIX:

Soil and Water

DATE:

March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 3 soil samples and 2 water samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 431) for diesel analysis-by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST02-SW01	972	Water
LON-LF07-SW02	988	Water
LON-LF07-S01	992	Soil
LON-LF07-S08	994	Soil
LON-LF07-S07	996	Soil

The following QC sample designations were included in project documentation: sample numbers LON-LF07-S01 and LON-LF07-S08 were designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The quantitation limits reported by the laboratory for the water samples (200 ppb) were higher than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. <u>Initial Calibration:</u>

B.1 The laboratory performed a 3 point initial calibration on GC instrument ICF6 on August 29, 1993. The range of the initial calibration was from 100 ppm to 10,000 ppm. Due to the sensitivity present at the 100 ppm initial calibration standard, the practical quantitation limit (PQL) of 50 ppm does not need to be raised to the low point of this initial calibration (100 ppm). All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 9.04 was calculated using calibration factors determined from the initial calibration, and is within the recommended QC limit of 20.0%. However, since only three points were used to establish the initial calibration curve, the detected results of the associated samples are qualified "J" as estimated and usable for limited purposes.

B.2 The laboratory analyzed a 7 point initial calibration on GC instrument ICF5 on August 25, 1993. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 13.0% was calculated by the reviewer using calibration factors determined from the initial 6 point calibration. The %RSD of 13.0% is within the recommended QC criteria of 20.0%.

#### C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

### E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

### G. Field Replicate Analyses:

- G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-LF07-S01 and LON-LF07-S08 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. Surrogate Recoveries:

H.1 All surrogate recoveries met QC criteria and the results are considered acceptable.

### I. Matrix Spike/Matrix Spike Duplicate:

I.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

#### J. System Performance:

1.1 No problems with system performance were observed for all project samples.

#### K. Quantitation and Identification:

- K.1 Diesel was not detected in the project water and soil samples.
- K.2 The laboratory reported diesel in sample LON-LF07-S01 at a concentration of 50 ppm. It is the opinion of the reviewer that diesel was not present in the sample because the sample chromatogram did not support the diesel pattern, but did show hydrocarbon contamination. Therefore, the reported result was changed to the appropriate PQL on the data summary form by the reviewer.
- K.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.4 The laboratory reported incorrect PQLs for samples LON-ST02-SW01, LON-LF07-SW02. The PQLs have been corrected on the data summary forms by the reviewer.
- K.5 No other problems were observed with compound quantitation and identification.

#### L. <u>Conclusion:</u>

- L.1 Diesel was not detected in the project water and soil samples at a concentration above the PQL and the results are considered acceptable.
- L.2 The PQLs for sample numbers LON-ST02-SW01 and LON-LF07-SW02 have been changed to 1000 ppb on the data summary form by the reviewer.
- L.3 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.



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#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

MATRIX: DATE: Soil and Water April 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 2 water samples and 3 soil samples from the Point Lonely site on August 26, 1993 (referenced chain of custody record No. 431) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 28, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-ST02-SW01	972	Water
LON-LF07-SW02	988	Water
LON-LF07-S01	992	Soil
LON-LFO7-S08	994	Soil
LON-LF07-S07	996	Soil

The following QC sample designations were included in project documentation: sample numbers LON-LF07-S01 and LON-LF07-S08 were designated as field replicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

## B. <u>Initial Calibration:</u>

- B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 30.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 30.3 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.
- B.2 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

## C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. Laboratory Blanks:

D.1 PCBs were not detected in the method blankS at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 PCBs were not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks submitted for analysis with this project sample set.

#### G. Field Replicate Analyses:

- G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-LF07-S01 and LON-LF07-S08 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. <u>Surrogate Recoveries:</u>

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

## I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- I.1 Sample LON-LF11-S01, which is not part of this project sample set, but is from the Point Lonely site was analyzed as the soil MATRIX SPIKE/matrix spike duplicate for chain of custody 431. The corresponding matrix spike analysis could not be located in the raw data.
- 1.2 Tap water was used for the water matrix spike/matrix spike duplicate analyses.
- 1.3 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

### J. <u>System Performance:</u>

J.1 No problems with system performance were observed for the project sample analyses.

#### K. Quantitation and Identification:

- K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the samples.
- K.2 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 No other problems with compound quantitation and identification were observed for this project sample set.

#### L. Conclusion:

L.1 PCBs were not detected at concentrations above the PQL of the PCBs in the project soil and water samples, and the results are considered acceptable.



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#### DATA VALIDATION REPORT

**PROGRAM:** Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Keith Strout

ANALYSIS: HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

MATRIX: Water and Soil DATE: March 31, 1995

### I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 2 water samples and 3 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0431). All of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 29 and August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-ST02-SW01	978	Water
LON-LF07-SW02	990	Water
LON-LF07-S01	992	Soil
LON-LF07-S08	994	Soil
LON-LF07-S07	996	Soil

The following QC sample designations were included in project documentation: sample numbers LON-LF07-S01 and LON-LF07-S08 were designated as field replicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional"

Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

A. Technical Holding Times:

A.1 The technical holding time QC criteria were met for all project sample analyses.

B. Initial Calibration:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 29, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	% RSD
toluene	26 %
ethylbenzene	53 %
m & p-xylene	41 %
o-xylene	28 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 when quantitated using the FID detector are qualified "J" as estimated and are usable for limited purposes.

B.3 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

## C. <u>Continuing Calibrations:</u>

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks:</u>

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

### E. Instrument Blanks:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

#### G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-LF07-S01 and LON-LF07-S08 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

#### H. <u>Surrogate Recoveries</u>:

H.1 All surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### I. Matrix Spike/Matrix Spike Duplicate Analyses:

I.1 Sample number LON-SS01-S10-04, which is associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.

1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

### J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 No other problems with system performance were observed for the project samples.

## K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 No problems were observed for compound quantitation and identification.

#### L. <u>Conclusion:</u>

- L.1 There were no target analytes detected at a concentration above the PQLs in any of the project samples.
- L.2 All data are considered valid and usable for all purposes.



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#### **DATA VALIDATION REPORT**

**PROGRAM:** Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Keith Strout

**ANALYSIS:** Gasoline by USEPA Method 8015M

MATRIX: Water and Soil DATE: March 31, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 2 water samples and 3 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0431). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 29 and August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-ST02-SW01	978	·Water
LON-LF07-SW02	990	Water
LON-LF07-S01	992	Soil
LON-LF07-S08	994	Soil
LON-LF07-S07	996	Soil

The following QC sample designations were included in project documentation: sample numbers LON-LF07-S01 and LON-LF07-S08 were designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This

report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

### II. VALIDITY & COMMENTS:

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. <u>Initial Calibration:</u>

- B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.
- B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

#### C. <u>Continuing Calibrations:</u>

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

### D. <u>Laboratory Blanks:</u>

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

#### E. Instrument Blanks:

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

### G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Samples LON-LF07-S01 and LON-LF07-S08 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. Surrogate Recoveries:

H.1 The surrogate QC recovery criteria were met for all project samples and the results are considered acceptable.

### I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

I.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

#### J. System Performance:

J.1 No problems with system performance were observed for the project samples.

#### K. Quantitation and Identification:

K.1 No problems were observed with compound quantitation and identification.

#### L. <u>Conclusion:</u>

L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

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#### **DATA VALIDATION REPORT**

**PROGRAM:** POINT LONELY/ DEW Line RI/FS (ICF Project No. 41096-512-02)

**LABORATORY:** Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** Timothy Vonnahme

**ANALYSIS:** Diesel by EPA Method 8015M

MATRIX: Water and Soil DATE: March 10, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (Seattle, WA) received 8 soil samples and 2 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 442) for diesel analysis by the semivolatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for diesel by USEPA Method 8015M (modified) (GC/FID) on August 30, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	<u>Lab Sample No.</u>	<u>Matrix</u>
LON-SS09-S01	998	Soil
LON-SS09-S02	1000	Soil
LON-SS09-S03	1004	Soil
LON-SS09-S05	1006	Soil
LON-SS09-S06	1008	Soil
LON-SS09-SW01	1010	Water
LON-SS09-SW02	1016	Water
LON-SS13-SD03	1020	Soil
LON-ST10-SD02	1024	Soil
LON-ST10-SD07	1026	Soil

The following sample designations were included in project documentation: sample numbers LON-SS09-S05, LON-SS09-S06, were designated as field replicate samples, and LON-ST10-SD02, and LON-ST10-SD07 were also designated as field replicate samples.

The analytical results for the soil samples were reported with an adjustment for moisture

content.

The quantitation limits reported by the laboratory for the water samples (1000 ppb) were higher than those specified in the Project Sampling and Analysis Plan (500 ppb). However, since the low point of the initial calibration is 50 ppm, the PQL should be 1000 ppb. It is the opinion of the reviewer that the quality of the data was not affected.

The quantitation limits reported by the laboratory for the soil samples (50 ppm) were higher than those specified in the Project Sampling and Analysis Plan (10 ppm). Since the low point of the initial calibration is 50 ppm, the PQL should be 50 ppm for the soil project samples. It is the opinion of the reviewer that the quality of the data was not affected.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8015M, and the Project Sampling and Analysis Plan.

### II. VALIDITY & COMMENTS:

A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory performed a 3 point initial calibration on GC instrument ICF6 on August 29, 1993. The range of the initial calibration was from 100 ppm to 10,000 ppm. Due to the sensitivity present at the 100 ppm initial calibration standard, the practical quantitation limit (PQL) of 50 ppm does not need to be raised to the low point of this initial calibration (100 ppm). All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 9.04 was calculated using calibration factors determined from the initial calibration, and is within the recommended QC limit of 20.0%. However, since only these three points were used to establish the calibration curve, the detected results of the associated samples are qualified "J" as estimated and usable for limited purposes.

B.1 The laboratory analyzed a 6 point initial calibration on GC instrument ICF5 on 8/28/93. The attempted range of the initial calibration was from 10 ppm to 10,000 ppm. Due to low sensitivity and interference, the 10 ppm calibration standard was deleted from the calibration. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 41.6% was calculated using calibration factors determined from the initial 5 point calibration. The RSD of 41.6% exceeds the recommended QC criteria of 20.0%, primarily due to the interference in the 50 ppm calibration standard which produced an artificially high calibration factor. A %RSD of 9.8 was obtained using a range of 200 ppm to 10,000 ppm. Since the initial

calibration exceeds the recommended QC criteria of 20.0%, the detected results for diesel in the project samples are qualified "J" as estimated and usable for limited purposes.

C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

D. Laboratory Blanks:

D.1 Diesel was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

E. Instrument Blanks:

E.1 Diesel was not detected in the instrument blanks at concentrations above the PQL and the results are considered acceptable.

F. Field Blanks:

F.1 There were no field blank analyses associated with this project sample set.

G. Field Replicate Analyses:

- G.1 A QC limit for precision of ≤50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-ST10-SD07 and LON-ST10-SD02 were utilized for field replicate analysis. The diesel concentrations were 900 ppm and 200 ppm, respectively, the RPD for these values is 113%, which is outside the acceptable QC RPD criteria of  $\leq$ 50%. It is not know what effect this will have on the quality of the data.
- G.3 The results of the other field replicate analyses met all applicable QC criteria and the results are considered acceptable.

H. Surrogate Recoveries:

- H.1 The surrogate recovery was 200% in sample number LON-SS09-S03, 40% in sample number LON-SS09-SW01, and 39% in sample number LON-SS09-SW02. Since these recoveries were outside the QAPP QC limits of 50-150%, all detected results in these samples are qualified "J" as estimated and usable for limited purposes.
- H.2 All other surrogate recoveries met QC criteria and the results are considered acceptable.

I. Matrix Spike/Matrix Spike Duplicate:

1.1 All of the matrix spike/matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

J. System Performance:

1.1 Diesel was detected in sample numbers LON-SS09-S02 and LON-SS09-S03

at a concentration of 12,000 ppm and 16,000 ppm, respectively. Because the diesel results are above 10,000 ppm a dilution should have been performed by the laboratory. Therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

J.2 No other problems with system performance were observed for all project samples.

### K. Quantitation and Identification:

K.1 Diesel was detected in the following soil project samples:

ICF Site No.	Diesel Conc. (ppm)
LON-SS09-S01	4100
LON-SS09-S02	12000 (oil contamination)
LON-SS09-S03	16000 (oil contamination)
LON-SS13-SW03	90 (oil contamination)
LON-ST10-SD02	250
LON-ST10-SD07	900

- K.2 Due to the large percent RSDs in the initial calibrations, the detected results for diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.3 The laboratory reported diesel contaminated with oil in sample LON-SS09-S05 at a concentration of 70 ppm. It is the opinion of the reviewer that diesel was not present in the sample because the sample chromatogram did not support the diesel pattern, but did show lube oil contamination. Therefore, the reported result was changed to the appropriate PQL on the data summary form by the reviewer.
- K.4 The laboratory reported incorrect PQLs for samples LON-SS09-SW01 and LON-SS09-SW02. The PQLs have been corrected on the data summary forms by the reviewer.
- K.5 No other problems were observed with compound quantitation and identification.

#### L. <u>Concentration</u>:

- L.1 As noted in Section K.1, diesel was detected in 6 of the soil samples at concentrations ranging between 90 ppm and 16000 ppm. Sample numbers LON-SS09-S02, LON-SS09-S03 and LON-SW13-SW03 were also contaminated with motor oil.
- L.2 The PQLs for the two water samples have been changed to 1000 ppb on the data summary form by the reviewer.
- L.3 Due to the large percent RSDs in the initial calibrations, the detected results of diesel in all project soil samples and blanks are qualified "J" as estimated and usable for limited purposes.

L.4 Field replicate samples LON-ST10-SD07 and LON-ST10-SD02 were outside the acceptable QC RPD criteria of  $\leq$ 50%. It is not known what effect this will have on the quality of the data.

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#### DATA VALIDATION REPORT

PROGRAM:

POINT LONELY/ DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Timothy Vonnahme

**ANALYSIS:** 

Polychlorinated Biphenyls (PCBs) by USEPA Method 8080.

MATRIX:

Soil and Water

DATE:

April 20, 1995

### I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (Seattle, WA) received 6 soil samples and 2 water samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0442) for PCB analysis by the PCB organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The samples were analyzed for PCBs by USEPA Method 8080 (GC/ECD) on August 29, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	Matrix
LON-SS09-S01	998	Soil
LON-SS09-S02	1000	Soil
LON-SS09-S03	1004	Soil
LON-SS09-S05	1006	Soil
LON-SS09-S06	1008	Soil
LON-SS09-SW01	1010	Water
LON-SS09-SW02	1016	Water
LON-SS13-SW03	1020	Soil

The following sample designations were included in project documentation: sample numbers LON-SS09-S05, LON-SS09-S06, and LON-SS09-SD01, and LON-SS09-SD03 were designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared in accordance with the USEPA draft document "National Functional Guidelines for Organic Data Review", December 1990, and the analytical guidelines in USEPA Method 8080, and the Project Sampling and Analysis Plan.

#### II. VALIDITY & COMMENTS:

## A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

### B. <u>Initial Calibration</u>:

B.1 The laboratory performed a five point initial calibration on GC instrument ICF6 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 30.3% was calculated using calibration factors determined from the initial calibration. The %RSD of 30.3 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

B.2 The laboratory performed a five point initial calibration on GC instrument ICF5 on August 21, 1993. The range of the initial calibration was from 0.1 ppm to 10 ppm. A percent relative standard deviation (%RSD) of 37.2% was calculated using calibration factors determined from the initial calibration. The %RSD of 37.2 exceeds the recommended method criteria of 20.0%, therefore, the detected results are qualified "J" as estimated and usable for limited purposes.

#### C. <u>Continuing Calibration:</u>

C.1 All QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. <u>Laboratory Blanks</u>:

D.1 PCBs were not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

#### E. <u>Instrument Blanks</u>:

E.1 PCBs were not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

#### F. Field Blanks:

F.1 There were no field blanks submitted for analysis with this project sample set.

#### G. <u>Field Replicate Analyses:</u>

G.1 A QC limit for precision of  $\leq$ 50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate

comparability.

G.2 Sample numbers LON-SS09-S05, LON-SS09-S06, LON-SS09-SD01, and LON-SS09-SD03 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. <u>Surrogate Recoveries:</u>

- H.1 The surrogate recoveries for sample numbers LON-SS09-SW01 and LON-SS09-SW02 were 40% and 39% respectively, which is outside the applicable QC criteria of 50%-150%. Therefore, the PQLs of the PCBs in the two samples are qualified "J" as estimated and usable for limited purposes.
- H.2 All other surrogate recoveries met applicable QC criteria and the results are considered acceptable.

## I. <u>Matrix Spike/Matrix Spike Duplicate:</u>

- I.1 Sample number LON-ST02-S06, which is not part of this project sample set but is from the Point Lonely site, was analyzed as the soil matrix spike/matrix spike duplicate for chain of custody 442.
- 1.2 All of the matrix spike duplicate QC recovery criteria were met and the results are considered acceptable.

## J. <u>System Performance</u>:

J.1 No problems with system performance were observed for the project sample analyses.

## K. Quantitation and Identification:

- K.1 PCBs were not detected at concentrations above the PQL of the PCBs in all the samples.
- K.2 The laboratory reported incorrect PQLs for the PCBs in sample number LON-SS09-S06, and the aqueous method blank. The PQLs have been corrected on the data summary forms by the reviewer.
- K.3 Due to the large percent RSDs in the initial calibration, the detected results for PCBs in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.
- K.4 No other problems with compound quantitation and identification were observed for this project sample set.

#### L. Conclusion:

L1. PCBs were not detected at concentrations above the PQL of the PCBs in the project water and soil samples, and the results are considered acceptable.

- L.2 The surrogate recoveries for sample numbers LON-SS09-SW01 and LON-SS09-SW02 were 40% and 39% respectively, which is outside the applicable QC criteria of 50%-150%. Therefore, the PQLs of the PCBs in the two samples are qualified "J" as estimated and usable for limited purposes.
- L.3 The PQLs of the PCBs in sample number LON-SS09-S06 have been corrected on the data summary forms by the reviewer.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

HVOCs by USEPA Method 8010 and BTEX compounds by USEPA Method

8020

**MATRIX:** 

Water and Soil

DATE:

March 10, 1995

## I. <u>INTRODUCTION:</u>

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 2 water samples and 9 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0442). Nine of the samples required analysis for the halogenated volatile organic compounds (HVOCs) and all of the samples required analysis for the BTEX compounds by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for HVOCs by USEPA Method 8010 and the BTEX compounds by USEPA Method 8020 on August 28 and August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	Matrix
LON-SS09-S01	998	Soil
LON-SS09-S02	1000	Soil
LON-SS09-S03	1004	Soil
LON-SS09-S05	1006	Soil
LON-SS09-S06	1008	Soil
LON-SS09-SW01	1012	Water
LON-SS09-SW02	1018	Water
LON-SS09-SD03	1020	Soil
LON-SS09-SD01	1022	Soil .
LON-ST10-SD02	1024	Soil
LON-ST10-SD07	1026	Soil

The following QC sample designations were included in project documentation: sample numbers LON-SS09-S05 and LON-SS09-S06 were designated as field replicates, sample numbers LON-SS09-SD03 and LON-SS09-SD01 were designated as field replicates, and sample numbers LON-ST10-SD07 and LON-ST10-SD02 were also designated as field replicates.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Methods 8010 and 8020, and the Project Sampling and Analysis Plan.

The analytical results for the soil samples were reported with an adjustment for moisture content.

It should be noted that all quantitation limits reported by the laboratory for HVOCs for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

## II. <u>VALIDITY & COMMENTS:</u>

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. <u>Initial Calibration</u>:

B.1 The laboratory analyzed a five point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

Compound	<u>% RSD</u>
benzene	28.3 %
o-xylene	26.5 %

Due to the large percent RSDs, the detected results for these compounds in all project samples are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 29, 1993. The range of the initial calibration was from 1 ppb to 1000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. Percent relative standard deviations (%RSDs) were calculated for

all compounds using the calibration factors from the initial calibration using the FID detector. The % RSDs for the following compounds exceeded the recommended QC criteria of 20.0%.

<u>Compound</u>	% RSD
toluene	26 %
ethylbenzene	53 %
m & p-xylene	41 %
o-xylene	28 %

Due to the large percent RSDs, the detected results for these compounds in all project samples analyzed on system 3-4 when quantitated using the FID detector are qualified "J" as estimated and are usable for limited purposes.

B.3 The laboratory was unable to demonstrate linearity throughout the quantitation range using the ECD detector because the detector was saturated at low concentrations. It is the opinion of the reviewer that the ECD detector can be used only to confirm the presence of the halogenated compounds. Quantitation of the halogenated compounds should have been done on the PID or FID detector when possible, and only if compound detection was confirmed on the ECD.

### C. <u>Continuing Calibrations:</u>

- C.1 The continuing calibrations were performed at a concentration of 500 ppb. At this concentration, the ECD response for all of the halogenated compounds is saturated. Therefore, the ECD detector should only be used to confirm the presence of the halogenated compounds.
- C.2 All other QC criteria for the continuing calibrations were met and the results are considered acceptable.

#### D. <u>Laboratory</u> Blanks:

D.1 No target analytes were detected in the method blanks at a concentration above the practical quantitation limit (PQL) and the results are considered acceptable.

### E. <u>Instrument Blanks</u>:

E.1 No target analytes were detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

#### G. Field Replicate Analysis:

G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.

- G.2 Sample numbers LON-SS09-S05 and LON-SS09-S06 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.
- G.3 Sample numbers LON-SS09-SD01 and LON-SS09-SD03 were also utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.
- G.4 Sample numbers LON-ST10-SD02 and LON-ST10-SD07 were also utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

### H. Surrogate Recoveries:

- H.1 The surrogate recoveries in sample numbers LON-SS09-S02 and LON-SS09-S03 exceeded the QC acceptance criteria, which was probably due to interference from the late eluting hydrocarbons detected in the samples. It is the opinion of the reviewer that this should not have an effect on the project sample results.
- H.2 All other surrogate recoveries met applicable QC criteria and the results are considered acceptable.

#### I. Matrix Spike/Matrix Spike Duplicate Analyses:

- I.1 Sample number LON-SS05-S01, which is associated with a different project sample set, was used for the matrix spike/matrix spike duplicate analyses.
- 1.2 All of the matrix spike/matrix spike duplicate QC criteria were met and the results are considered acceptable.

### J. System Performance:

- J.1 It is the opinion of the reviewer that the ECD detector cannot be used for the quantitation of the halogenated compounds because the detector displayed saturation at low concentrations. The ECD detector can be used for halogenated compound identification confirmation.
- J.2 It is the opinion of the reviewer that carryover contamination from a previous analysis was present in sample number LON-ST10-SD02, therefore, the PQLs for the target analytes in this sample have been raised by the reviewer and are qualified "J" as estimated and usable for limited purposes.
- J.3 No other problems with system performance were observed for the project samples.

### K. Quantitation and Identification:

- K.1 Compound identification was confirmed using a second column and an alternate detector.
- K.2 The laboratory did not adjust the PQLs for the target analytes for moisture content in sample numbers LON-SS09-S06 and LON-ST10-S07. The PQLs for the

target analytes in these sample have been adjusted for moisture content by the reviewer.

K.3 No other problems were observed for compound quantitation and identification.

#### L. <u>Conclusion:</u>

- L.1 Due to carryover contamination in sample number LON-ST10-SD02, the PQLs for the target analytes have been raised by the reviewer and qualified "J" as estimated and are usable for limited purposes.
- L.2 The PQLs for the target analytes in sample numbers LON-SS09-S06 and LON-ST10-S07 have been properly adjusted for moisture content by the reviewer.
- L.3 Due to the large % RSDs for some of the target analytes in the initial calibrations, the detected results for these analytes in several of the project samples have been qualified "J" as estimated and are usable for limited purposes, as indicated on the data summary forms.
- L.3 All other data are considered valid and usable for all purposes.

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#### **DATA VALIDATION REPORT**

PROGRAM:

Point Lonely / DEW Line RI/FS (ICF Project No. 41096-512-02)

LABORATORY:

Friedman & Bruya, Inc. (Seattle, WA)

**REVIEWER:** 

Keith Strout

**ANALYSIS:** 

Gasoline by USEPA Method 8015M

MATRIX: DATE:

Water and Soil March 15, 1995

#### I. INTRODUCTION:

Friedman & Bruya, Inc. (FBI) (Seattle, WA) received 2 water samples and 9 soil samples from the Point Lonely site on August 27, 1993 (referenced chain of custody record No. 0442). All of the samples required analysis for Gasoline by the volatile organics extraction method described in Section 8 of the Project Sampling and Analysis Plan. The laboratory analyzed the samples for Gasoline by USEPA Method 8015M (modified) (GC/FID) on August 28 and August 31, 1993.

The ICF site identification numbers and corresponding FBI laboratory sample identification numbers are listed below.

ICF Site No.	Lab Sample No.	<u>Matrix</u>
LON-SS09-S01	998	Soil
LON-SS09-S02	1000	Soil
LON-SS09-S03	1004	Soil
LON-SS09-S05	1006	Soil
LON-SS09-S06	1008	Soil
LON-SS09-SW01	1012	Water
LON-SS09-SW02	1018	Water
LON-SS09-SD03	1020	Soil
LON-SS09-SD01	1022	Soil
LON-ST10-SD02	1024	Soil
LON-ST10-SD07	1026	Soil .

The following QC sample designations were included in project documentation: sample numbers LON-SS09-S05 and LON-SS09-S06 were designated as field replicates, sample

numbers LON-SS09-SD03 and LON-SS09-SD01 were designated as field replicates, and sample numbers LON-ST10-SD07 and LON-ST10-SD02 were also designated as field replicates.

The analytical results for the soil samples were reported with an adjustment for moisture content.

The analytical results with qualifications are presented on modified sample data sheets submitted by the laboratory. Definitions of the data qualifiers are listed in Table 1B. This report was prepared using the guidelines in the USEPA draft document "National Functional Guidelines for Organic Data Review" (December 1990), USEPA Method 8015M, and the Project Sampling and Analysis Plan.

It should be noted that all quantitation limits reported by the laboratory for project soil samples were higher than those specified in the Project Sampling and Analysis Plan. According to the laboratory, all soil samples were extracted in methanol before analysis, as required by the State of Alaska guidelines. It is the opinion of the reviewer that the quality of the data was not affected.

## II. <u>VALIDITY & COMMENTS:</u>

### A. <u>Technical Holding Times:</u>

A.1 The technical holding time QC criteria were met for all project sample analyses.

#### B. Initial Calibration:

B.1 The laboratory analyzed a four point initial calibration on system 1-2 on August 19, 1993. The range of the initial calibration was from 50 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 31.8 was calculated using calibration factors determined from the initial calibration. The 31.8% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 1-2 are qualified "J" as estimated and are usable for limited purposes.

B.2 The laboratory analyzed a four point initial calibration on system 3-4 on August 24, 1993. The range of the initial calibration was from 100 ppb to 5000 ppb. All samples were quantitated using a linear regression curve calculated from the initial calibration. A percent relative standard deviation (%RSD) of 27.4 was calculated using calibration factors determined from the initial calibration. The 27.4% RSD exceeds the recommended 20.0% RSD, therefore, the detected results for gasoline in all of the samples analyzed on system 3-4 are qualified "J" as estimated and are usable for limited purposes.

#### C. <u>Continuing Calibrations</u>:

C.1 The laboratory did not perform any continuing calibrations for the gasoline fraction. The laboratory indicated that since the same injection was used to analyze for gasoline and the BTEX compounds, the continuing calibration response on the

FID for the BTEX compounds and the surrogate were used to determine linearity for the gasoline fraction. It is the opinion of the reviewer that the laboratory should have run continuing calibrations for the gasoline fraction, however, the response for the BTEX compounds and the surrogate compound can be used to determine if the instrument has maintained linearity for the gasoline fraction. Because the laboratory did not perform any continuing calibrations specifically for the gasoline fraction, the detected results and the practical quantitation limits (PQLs) are qualified "J" as estimated and are usable for limited purposes.

C.2 All QC criteria for the BTEX continuing calibrations were met and the results are considered acceptable.

#### D. <u>Laboratory</u> Blanks:

D.1 Gasoline was not detected in the method blanks at a concentration above the PQL and the results are considered acceptable.

#### E. <u>Instrument Blanks:</u>

E.1 Gasoline was not detected in the instrument blanks at a concentration above the PQL and the results are considered acceptable.

### F. Field Blanks:

F.1 There were no field blanks associated with this project sample set.

### G. Field Replicate Analysis:

- G.1 A QC limit for precision of  $\leq$  50%, as measured by Relative Percent Difference (RPD) between soil sample values, was specified for field replicate comparability.
- G.2 Sample numbers LON-SS09-S05 and LON-SS09-S06 were utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.
- G.3 Sample numbers LON-SS09-SD01 and LON-SS09-SD03 were also utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.
- G.4 Sample numbers LON-ST10-SD02 and LON-ST10-SD07 were also utilized for field replicate analysis. The results of the field replicate analyses met all applicable QC criteria and the results are considered acceptable.

## H. Surrogate Recoveries:

- H.1 The surrogate recoveries in sample numbers LON-SS09-S02 and LON-SS09-S03 exceeded the QC acceptance criteria which was probably due to interference from late eluting hydrocarbons present in the samples. It is the opinion of the reviewer that this should not effect the project sample results.
- H.2 The surrogate QC recovery criteria were met for all other project samples and the results are considered acceptable.

I. <u>Matrix Spike/Matrix Spike Duplicate Analyses:</u>

1.1 The laboratory did not perform any matrix spike/matrix spike duplicate analyses for the gasoline fraction.

J. System Performance:

J.1 No problems with system performance were observed for the project samples.

K. Quantitation and Identification:

K.1 The laboratory reported detected results in sample numbers LON-SS09-S06, LON-SS13-SD03, LON-SS09-S02, LON-SS09-S03, LON-ST10-SD02, and LON-ST10-SD07, and identified it as diesel fuel. It is the opinion of the reviewer that the chromatographic pattern confirms the presence of late eluting hydrocarbons, and the reported detected results are qualified "J" as estimated and are usable for limited purposes.

K.2 No other problems were observed with compound quantitation and identification.

L. <u>Conclusion:</u>

L.1 Due to the large percent RSDs in the initial calibrations and the lack of continuing calibrations, the detected results and the PQL for gasoline in all project samples and blanks are qualified "J" as estimated and usable for limited purposes.

L.2 Due to the presence of late eluting hydrocarbons in several of the project samples, the reported results for gasoline in these samples are qualified "J" as estimated and are usable for limited purposes.

L.3 The laboratory mislabeled sample number LON-SS13-SD03 on the data summary form. The sample has been correctly identified on the data summary form by the reviewer.